





OSMANIA UNIVERSITY, HYDERABAD.  
PUBLICATIONS OF THE NIZAMIAH OBSERVATORY

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ASTROGRAPHIC CATALOGUE  
1900·0.

HYDERABAD SECTION  
(PART II.)

DEC.  $-20^{\circ}$  to  $-24^{\circ}$ .

FROM PHOTOGRAPHS TAKEN AND MEASURED AT THE NIZAMIAH  
OBSERVATORY, HYDERABAD.

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UNDER THE DIRECTION OF  
T. P. BHASKARAN, M.A., F.R.A.S.

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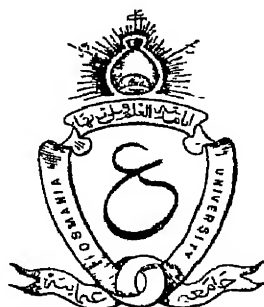


VOL. V.

MEASURES OF RECTANGULAR CO-ORDINATES  
AND DIAMETERS OF 88,444 STAR-IMAGES

ON PLATES WITH CENTRES IN

DEC.  $-21^{\circ}$ .



EDINBURGH:  
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# LOGUE.

## ERRATA.

PAGE	STAR	VOL. I.
11	2109	<i>x</i> for 9 895 read 9.395
40	12926	<i>y</i> for 0 056 read 5.056.
98	34514	<i>x</i> for 18.324 read 1 954
169	Plate Constants	<i>C</i> for +.0044 read +.0442.
189	68612	<i>d</i> for 99 read 9

		VOL. II.
41	13301	<i>y</i> for 1.146 read 0.146.
44	14359	<i>y</i> for 21.900 read 11.900
46	15151	<i>x</i> for 6.167 read 1.676
105	Heading	R.A., for 18 <sup>h</sup> 4 <sup>m</sup> read 13 <sup>h</sup> 4 <sup>m</sup> .

		VOL. IV
10	2900*	<i>x</i> for 1.130 read 1.134.
11	3021*	<i>x</i> for 25.874 read 25.870

		VOL. V.
31	10164	<i>x</i> for 24.930 read 23 930.
78	Plate 1571	Date, for 1920 Feb. 2 read 1920 Feb 14
95	Plate 1545	Date, for 1920 Jan 2 read 1920 Jan. 21.
130	Plate 1594	Date, for 1921 Feb 17 read 1920 Feb. 17
184	Plate 1985	Date, for 1922 June 23 read 1922 May 23.
237	No.	for 83448 read 84348.

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HYDERABAD ASTROGRAPHIC CATALOGUE.  
1900·0.

Vol. V.

INTRODUCTION.

[A more detailed introduction has been given in Vol. I. of this series. Only such portions have been repeated here as require modification from Zone to Zone, or which are found necessary in explaining the contents of the present volume.]

I.—HISTORICAL SUMMARY.

A general statement was made in the introduction to Vol. I. of the circumstances under which the Nizamia Observatory agreed to undertake a section of the Astrographic Catalogue. By the time Vol. IV. (Dec.  $-20^{\circ}$ ) was completed it was found desirable that the extension southwards to the Zones  $-21^{\circ}$  to  $-23^{\circ}$  should be carried on by this Observatory, and the scheme was sanctioned by H.E.H. the Nizam's Government on the recommendation of the International Astronomical Union. The present volume, the fifth in the section allotted to Hyderabad, contains the results of measures made on plates with centres in Dec.  $-21^{\circ}$ . The work on this zone was commenced in December 1920 and continued until June 1923 when the last plate for the volume was obtained and measured. The task of taking and measuring plates has thus been spread over nearly three and a half years, a large part of it having been carried on simultaneously with work on other zones of the Catalogue.

As far as possible, the strictest economy in time has been observed throughout the course of the work. Scarcely any change has been made in the methods of observation and reduction ; and the arrangement of the results is in all respects similar to that in the previous volumes of the Catalogue.

The following table contains a list of persons who have taken part in the work on this zone, with the initials by which they are denoted :—

Name.	Initials.	Name.	Initials.
T. P. Bhaskaran . . .	B.	M. Anantanarayanan . . .	N.
C. Hanumantha Rao . . .	H.	U. S. Raghavendra Rao . . .	R.
D. R. Sripathi Rao . . .	S.	M. Ahmedullah . . .	M.A.
M. K. Bappu . . .	M.	A. V. Bheema Rao . . .	B.R.
Syed Ahmed . . .	A.	A. J. Govind Raja . . .	G.



Besides the above, H. S. Ramanna and M. V. Vaidyanatha Sastri have rendered assistance in the necessary computations and reductions.

## II.—THE INSTRUMENT.

See Introduction to Vol. I. p. vi.

## III.—PHOTOGRAPHIC.

Nearly all the plates for this zone have been given three exposures, the telescope being slightly displaced in declination in the interval between the exposures. The actual lengths of the exposures have varied with the quality of the plates employed, but for the great majority of the photographs the duration of the primary exposure was 12 m, while the second and third exposures were for 6 m and 40 sec respectively.

The following table shows the class of plate used and also the particular batch from which it was taken :—

Limiting Plates	Class and Batch
1541-1564	Elliott's "Stella" A 400
1570-1668	" " C 412
1673-1753	" " A 436
1754-1818	" " B 470
1827-1875	" " B 483
1983-2031	" " B 528
2057-2083	" " D 544

Mr Bappu has been responsible for developing all the plates contained in this volume. The developer used was Pyro-Soda throughout, except for plates with numbers between 1587 and 1605, which were developed with Serchol Hydrokinone, and those between 2031 and 2083, when Metol was substituted.

As in the previous zones, no special effort was taken to secure large numbers of stars in the richer regions. The first plate of an area which was centred approximately correctly and found otherwise satisfactory was generally accepted. But in the poorer regions reasonable effort has been made to obtain an adequate number of stars on each plate. There are only ten plates containing less than 150 stars, and none less than 110.

The ratio of the number of stars on each plate to the number shown on the corresponding region of Schönfeld's map has been used as a general criterion. As a rule if, for any plate, this ratio is less than 2.0 (corresponding to 2.5 for Argelander's B.D.), it is rejected and a duplicate photograph of the region is taken under better conditions. For only three plates in this zone the ratio falls below the adopted limit, while for the majority of the plates it is above 3.0. For plates in low galactic latitudes the ratio naturally attains a very high value, although in such cases the measurers were instructed to omit all the very faint stars during measurement. The average number of stars per plate is 491, a number somewhat higher than the average in the Hyderabad zones previously published. This was chiefly due to the better quality of the plates which the makers were able to supply when the work was in progress.



*Réseaux.*—The Gautier réseau kindly lent by the Kodaikanal Observatory was used for all the plates in this zone except Plate No. 2083, on which was imprinted a new réseau supplied by M. Prin, Paris. The former réseau is ruled to the standard scale (value of one réseau interval = 5 mm.) ; and, as the focal length of the Hyderabad Photographic Telescope requires a spacing of 4.985 mm., this involves scale value corrections of about  $-0.175$  times the measured co-ordinates. In the réseau made by M. Prin, the correct spacing required for the telescope has been adopted for the ruling ; and the scale value corrections are thus very small and easily applied. The réseau was imprinted on the plates before development by exposure to light from an electric lamp at a distance of about 18 feet from the plateholder, the réseau and plate being separated by an edging of moderately thick paper.

The following table gives the particulars of the plates in the present volume.

The first column gives the number of the plate in the Hyderabad series.

The second column gives to three decimal places the fraction of the year corresponding to the astronomical day on which the exposure was made.

The third column gives the approximate R.A. of the plate centre.

The fourth column gives the hour angle of the plate centre corresponding to the middle of the exposure which was subsequently measured. Clock corrections have been applied to obtain Hyderabad sidereal time to 1 sec, but the result is given to the nearest minute.

The fifth column gives the duration of the exposures ; the image due to the longest exposure was measured in all cases except the following six, viz. :—

h	m	h	m
1	40	12	36
6	20	19	0
8	4	22	44

when the images corresponding to the 6 m exposure were measured, the primary image being badly guided and otherwise defective.

The sixth column indicates the observer who guided the telescope ; a second observer was always present to assist in setting the instrument, recording time, etc. The significance of the different initials is explained above (see Section I.).

The seventh column shows which of the measuring micrometers was used. Each measurer used the same instrument throughout. In No. 1 the plates for the southern zones have to be measured with the glass side up.

The eighth column gives the initials of the measurer. Each plate was measured throughout in both positions direct and reverse by one measurer.

The ninth column gives the number of stars measured.

The tenth column shows the ratio of the number of stars measured to the number found in the corresponding area of Schönfeld's map.

The eleventh column gives the number of stars in the corresponding region of the *Astronomische Gesellschaft Catalogue* (Algiers Section) 1900-0.



*Last of Plates in the Present Volume. Centres in Dec. —21°.*

No. of plate.	Year of fraction, 1900+.	R. A. of centre.		Hour angle		Exposures.			Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schonfeld.	No in A.G.C. (Algiers)
		h	m	h	m	m	m	s						
1762	20·936	0	4	1	38	W.	6,	12, 40	R.	4	M.	151	2·0	14
1709	20·791		12	0	17	E.	12,	6, 40	A.	4	M.	179	2·8	11
1746	20·925		20	0	54	W.	12,	6, 40	R.	3	N.	211	3·6	14
1758	20·934		28	0	19	E.	12,	6, 40	S.	1	S.	114	2·2	11
1756	20·931		36	0	1	W.	12,	6, 40	M.	3	N.	165	2·2	25
1710	20·791		44	0	16	E.	12,	6, 40	A.	4	M.	237	3·4	23
1750	20·928	0	52	0	40	E.	12,	6, 40	S.	3	N.	237	4·1	17
1759	20·934	1	0	0	20	E.	12,	6, 40	S.	1	R.	137	2·1	16
1751	20·928		8	0	23	E.	12,	6, 40	S.	1	R.	228	4·1	15
1763	20·936		16	1	4	W.	6,	12, 40	R.	3	A.	117	1·6	20
1752	20·928		24	0	11	E.	12,	6, 40	S.	3	N.	186	3·6	18
1711	20·791		32	0	35	E.	12,	6, 40	A.	1	S.	212	3·5	22
1747	20·925		40	0	12	W.	6,	12, 40	R.	3	A.	234	2·9	15
1767	20·939		48	1	27	E.	12,	6, 40	S.	3	A.	158	1·9	15
1712	20·791	1	56	0	32	E.	12,	6, 40	A.	3	N.	221	3·4	11
1768	20·939	2	4	1	6	E.	12,	8, 40	M.	3	A.	146	2·3	19
1753	20·928		12	0	25	E.	12,	6, 40	S.	1	R.	250	4·1	19
1769	20·939		20	0	51	E.	12,	8, 40	S.	4	M.	145	2·4	21
1764	20·936		28	0	29	W.	6,	12, 40	R.	3	A.	168	2·5	22
1713	20·791		36	0	35	E.	12,	6, 40	A.	3	A.	166	2·5	23
1748	20·925		44	0	19	W.	6,	12, 40	R.	1	R.	253	4·5	22
1714	20·791	2	52	0	23	E.	12,	6, 40	A.	3	N.	279	4·3	16
1765	20·936	3	0	0	29	W.	6,	12, 40	R.	4	M.	141	2·2	21
1715	20·791		8	0	11	E.	12,	6, 40	A.	1	R.	256	4·3	17
1749	20·925		16	0	22	W.	12,	6, 40	R.	3	A.	334	4·8	16
1770	20·939		24	1	10	E.	12,	8, 40	M.	4	M.	169	2·6	19
1777	21·003		32	0	26	E.	12,	6, 40	S.	3	A.	155	2·5	20
1778	21·003		40	0	3	E.	12,	6, 40	S.	4	M.	174	2·3	23
1716	20·791		48	0	24	E.	12,	6, 40	A.	1	S.	347	4·2	34
1771	20·939	3	56	1	9	E.	12,	6, 40	S.	1	R.	187	2·3	34
1779	21·003	4	4	0	5	W.	12,	6, 40	S.	4	M.	207	2·5	31
1775	21·901		12	0	25	E.	12,	6, 40	M.	4	M.	319	3·8	26
1785	21·008		20	0	1	W.	12,	6, 40	M.	3	A.	255	3·2	31
1717	20·791		28	0	38	E.	12,	6, 40	A.	4	M.	435	4·8	33
1718	20·791		36	0	15	E.	12,	6, 40	A.	1	S.	443	4·6	35
1782	21·006		44	1	42	E.	12,	6, 40	N.	4	M.	232	2·9	25
1780	21·003	4	52	0	9	E.	12,	6, 40	S.	1	R.	244	2·7	25
1783	21·006	5	0	1	16	E.	12,	6, 40	N.	3	A.	287	3·1	29
1784	21·006		8	0	54	E.	12,	6, 40	N.	4	M.	291	3·3	24
1719	20·791		16	0	30	E.	12,	6, 40	A.	1	R.	468	5·3	25
1720	20·791		24	0	5	E.	12,	6, 40	A.	3	A.	417	5·1	27
1786	21·008		32	0	28	E.	12,	6, 40	M.	4	M.	384	4·0	29
1721	20·791		40	0	17	W.	12,	6, 40	A.	1	S.	733	7·2	42
1541	20·055		48	0	19	E.	12,	6, 40	A.	4	M.	511	5·1	37
1787	21·008	5	56	0	19	E.	12,	6, 40	M.	4	M.	477	5·3	37
1542	20·055	6	4	0	4	E.	12,	6, 40	A.	1	R.	662	6·1	35
1554	20·115		12	0	5	W.	12,	6, 40	A.	3	N.	774	7·9	28
1581	20·123		20	0	6	W.	12,	6, 40	S.	1	R.	909	8·0	40
1549	20·058		28	1	31	E.	12,	6, 40	S.	3	N.	854	6·8	48
1550	20·058		36	1	0	E.	12,	6, 40	S.	1	S.	899	6·7	45
1543	20·055		44	0	14	E.	12,	6, 40	A.	3	A.	1036	5·8	37
1570	20·120	6	52	1	1	E.	12,	6, 40	R.	1	R.	1616	10·4	45
1551	20·058	7	0	0	50	E.	12,	6, 40	S.	3	N.	1143	6·5	56
1555	20·115		8	0	21	E.	12,	6, 40	A.	1	R.	1665	8·6	57
1609	20·148		16	1	4	W.	12,	6, 40	R.	3	N.	2616	12·7	56
1544	20·055		24	0	19	E.	12,	6, 40	A.	3	A.	1953	9·5	56
1571	20·120		32	0	50	E.	12,	6, 40	R.	4	M.	3040	14·8	50
1572	20·120		40	0	24	E.	12,	6, 40	R.	1	S.	3133	15·5	63
1545	20·055		48	0	10	E.	12,	6, 40	A.	1	R.	1424	8·0	38
1556	20·115	7	56	0	29	E.	12,	6, 40	A.	3	N.	1691	9·4	47



*List of Plates in the Present Volume. Centres in Dec. —21° (continued).*

No. of plate.	Year of fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.			Observer	Instrument.	Measur.	No. of stars.	Ratio to Schonfeld.	No. in A.G.C. (Algiers).
		h	m	h	m	m	m	s						
1596	20.131	8	4	0	26 E.	6,	12,	40	R	3	A	1456	8.8	63
1557	20.115		12	0	17 E.	12,	6,	40	A.	4	M.	1492	9.7	59
1562	20.118		20	0	39 E.	12,	6,	40	A.	1	S.	1468	11.3	55
1574	20.120		28	0	5 W.	12,	6,	40	R	4	M.	1095	7.3	48
1563	20.118		36	0	25 E.	12,	6,	40	A.	3	A.	833	6.5	45
1564	20.118		44	0	3 E.	12,	6,	40	A.	1	R.	663	5.8	46
1575	20.120	8	52	0	15 W.	12,	6,	40	R	3	N	585	5.0	31
1587	20.126	9	0	0	42 E.	12,	6,	40	N.	1	S.	483	4.6	35
1593	20.129		8	0	46 E.	12,	6,	40	A.	1	R.	592	6.2	25
1597	20.131		16	0	32 E.	6,	12,	40	R	3	A	464	4.1	34
1594	20.129		24	0	31 E.	12,	6,	40	A.	4	M	656	6.0	38
1583	20.123		32	0	41 E.	12,	6,	40	S	1	R.	481	4.1	37
1603	20.145		40	0	47 E.	12,	6,	40	N.	3	A.	574	6.2	32
1588	20.126		48	0	53 E.	12,	6,	40	N	4	M	483	5.5	26
1598	20.131	9	56	0	35 E.	12,	6,	40	R.	1	R	268	3.1	24
1584	20.123	10	4	0	38 E.	12,	6,	40	S	3	A	569	6.7	29
1589	20.126		12	0	39 E.	12,	6,	40	N.	4	M	391	5.2	23
1595	20.129		20	0	0	12,	7,	40	A	1	R.	517	6.3	26
1585	20.123		28	0	23 E.	12,	6,	40	S.	3	A	484	4.9	35
1610	20.148		36	0	57 E.	12,	6,	40	R.	4	M	514	6.1	17
1586	20.123		44	0	3 E.	12,	6,	40	S.	1	R	457	5.7	17
1615	20.197	10	52	1	4 E.	12,	6,	40	B.	3	N	249	2.9	22
1616	20.197	11	0	0	20 E.	12,	6,	40	M.	4	M	309	3.3	33
1605	20.145		8	1	7 E.	12,	6,	40	N.	3	N	300	3.8	29
1611	20.148		16	1	1 E.	12,	6,	40	R	4	M.	409	5.4	28
1606	20.145		24	0	53 E.	12,	6,	40	N.	3	A	388	4.8	23
1612	20.148		32	0	43 E.	12,	6,	40	R	1	S	454	5.8	28
1623	20.211		40	1	22 E.	12,	6,	40	M	4	M	241	3.3	22
1622	20.208		48	0	53 E.	12,	6,	40	A.	3	N.	329	3.8	26
2083	23.427	11	56	0	45 W.	12,	12½,	6m	B.	1	R.	186	2.4	27
1676	20.378	12	4	0	29 W.	6,	12,	40S	M.	1	R	291	4.3	25
1629	20.214		12	1	20 E.	12,	6,	40	M.	4	M	337	4.3	31
1677	20.381		20	0	0	12,	6,	40	H.	1	R.	204	3.0	23
1633	20.282		28	0	18 E.	12,	6,	40	A	4	M.	272	3.8	23
1678	20.381		36	0	23 W.	12,	6,	40	M.	3	A.	217	3.3	27
1643	20.290		44	0	32 E.	12,	6,	40	A.	3	N.	267	4.9	18
1644	20.290	12	52	0	8 E.	12,	6,	40	A.	1	S.	298	4.7	14
1637	20.288	13	0	0	40 E.	12,	6,	40	M.	1	R.	278	6.9	15
1657	20.301		8	1	10 E.	12,	6,	40	S.	3	A.	262	4.2	19
1679	20.381		16	0	5 W.	12,	6,	40	H.	1	R	232	3.9	21
1645	20.290		24	0	9 E.	12,	6,	40	A.	4	M.	307	5.2	13
1647	20.293		32	1	9 E.	12,	6,	40	S	3	N.	205	4.2	16
1680	20.381		40	0	12 W.	12,	6,	40	M.	3	A.	292	4.4	21
1638	20.288		48	0	51 E.	12,	6,	40	M.	1	R	337	4.6	28
1648	20.293	13	56	0	56 E.	12,	6,	40	S.	4	M	289	3.9	20
1658	20.301	14	4	1	30 E.	12,	6,	40	S.	3	N.	289	3.9	14
1659	20.301		12	1	8 E.	12,	6,	40	G.	3	A	281	4.8	15
1663	20.304		20	1	9 E.	12,	6,	40	M.	1	R.	406	5.8	23
1681	20.381		28	0	7 E.	12,	6,	40	H.	4	M.	373	6.3	19
1682	20.438		36	0	21 W.	12,	6,	40	M.	3	A.	345	5.6	18
1666	20.361		44	1	3 E.	12,	6,	40	B.	1	S	256	3.8	24
1673	20.364	14	52	0	41 E.	12,	6,	40	M.	4	M.	306	4.9	20
1667	20.361	15	0	0	50 E.	12,	6,	40	M.	3	A.	272	4.2	26
1794	21.178		8	0	40 E.	6,	12,	40	R	1	R	237	2.9	23
1791	21.175		16	0	58 E.	12,	6,	40	A	3	N.	222	2.5	28
1683	20.438		24	0	6 W.	12,	6,	40	M.	4	M	183	2.4	24
1668	20.361		32	0	52 E.	12,	6,	40	B.	3	A.	313	3.6	29
1795	21.178		40	0	33 E.	12,	6,	40	M.	1	R.	188	2.6	22
1797	21.181		48	0	50 E.	12,	6,	40	N.	1	S.	230	2.5	32
1792	21.175	15	56	1	7 E.	12,	6,	40	A.	4	M.	224	2.7	27



*List of Plates in the Present Volume. Centres in Dec. —21° (continued).*

No. of plate	Year of fraction, 1900+.	R.A. of centre		Hour angle.		Exposures.			Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schonfeld.	No. in A.G.C. (Algiers)
		h	m	h	m	m	m	s						
1684	20.438	16	4	0	0	12,	6,	40	M.	3	A.	229	2.3	36
1798	21.181		12	0	44 E.	12,	6,	40	N.	1	R.	197	2.2	23
1983	22.389		20	0	20 E.	12,	6,	40	B.	4	M.	187	3.0	10
2057	23.205		28	0	36 E.	12,	6,	40	R.	3	N.	178	5.1	16
1984	22.389		36	0	6 E.	12,	6,	40	M.	3	N.	221	4.2	14
1689	20.548		44	0	4 W.	12,	8,	40	R.	1	S.	174	2.4	21
1805	21.345	16	52	0	10 E.	12,	6,	40	R.	1	R.	123	1.5	33
1808	21.348	17	0	1	21 E.	12,	6,	40	S.	3	A.	203	2.5	31
1985	22.389		8	0	9 E.	12,	6,	40	R.	1	R.	497	4.4	32
1992	22.392		16	0	53 E.	12,	6,	40	N.	4	M.	406	3.4	42
1996	22.611		24	1	19 W.	12,	8	..	B.	1	R.	278	3.1	31
2071	23.238		32	0	29 E.	12,	6,	40	M.	3	N.	727	5.5	36
1986	22.389		40	0	6 E.	12,	6,	40	M.	1	S.	642	6.3	25
2070	23.233		48	0	45 E.	12,	6,	40	M.	1	S.	563	4.8	27
1815	21.353	17	56	0	42 E.	12,	6,	40	A.	1	R.	312	2.2	34
2073	23.276	18	4	0	40 E.	12,	6,	40	R.	1	S.	1438	9.6	52
2001	22.775		12	1	55 W.	12,	6,	40	B.	1	S.	1184	7.7	40
1987	22.389		20	0	17 E.	12,	6,	40	R.	3	A.	786	5.4	40
2004	22.778		28	1	29 W.	12,	8,	40	B.	3	N.	1609	12.0	35
2013	22.783		36	1	48 W.	8,	12,	40	B.	4	M.	1067	8.6	45
2009	22.780		44	1	32 W.	12,	6,	40	S.	3	A.	817	5.8	42
1818	21.353	18	52	0	9 W.	12,	6,	40	A.	3	N.	413	3.3	43
1837	21.758	19	0	1	46 W.	12,	6,	40	H.	4	M.	654	5.1	44
2002	22.775		8	1	32 W.	12,	6,	40	B.	3	A.	964	6.2	50
2005	22.778		16	1	14 W.	12,	6,	40	N.	4	M.	1326	8.7	42
1988	22.389		24	0	36 E.	12,	6,	40	R.	4	M.	462	3.3	32
2020	22.808		32	1	19 W.	12,	6,	40	B.	1	R.	865	6.4	34
1832	21.756		40	1	7 W.	12,	6,	40	M.	1	R.	865	6.7	34
2003	22.775		48	1	30 W.	6,	12,	40	A.	1	S.	795	7.3	25
1995	22.394	19	56	0	35 W.	12,	6,	40	R.	4	M.	295	3.2	16
1844	21.810	20	4	0	47 W.	12,	6,	..	S.	4	M.	327	3.1	32
1827	21.747		12	0	9 W.	15,	7,	40	N.	3	N.	547	4.8	34
1850	21.824		20	0	41 W.	12,	6,	40	M.	1	S.	580	5.6	31
2031	22.876		28	1	55 W.	15,	6,	40	B.	1	R.	641	6.4	25
1841	21.808		36	0	50 W.	6,	12,	..	A.	3	N.	419	4.3	31
1828	21.747		44	0	30 W.	12,	6,	40	N.	1	S.	425	4.3	28
1851	21.824	20	52	0	38 W.	12,	7,	40	A.	4	M.	494	5.1	29
1829	21.747	21	0	0	48 W.	12,	6,	40	N.	3	N.	387	3.7	31
1845	21.810		8	0	28 W.	12,	6,	40	S.	1	S.	371	4.4	21
1834	21.756		16	0	51 W.	12,	6,	40	M.	4	M.	520	6.7	32
1839	21.758		24	0	54 W.	12,	6,	40	H.	1	R.	192	3.0	20
1847	21.816		32	0	15 W.	14,	6,	40	N.	3	A.	164	2.3	22
1849	21.821		40	0	21 W.	12,	6,	40	S.	1	R.	347	5.3	21
1842	21.808		48	0	38 W.	12,	8,	40	A.	3	A.	331	4.7	21
1840	21.758	21	56	0	53 W.	12,	6,	40	H.	3	N.	262	3.7	17
1830	21.747	22	4	0	17 W.	12,	6,	40	N.	1	S.	246	3.8	19
1846	21.810		12	0	1 E.	12,	6,	40	S.	1	R.	253	4.0	30
1843	21.808		20	0	42 W.	12,	6,	40	A.	3	A.	279	4.0	18
1835	21.756		28	0	15 W.	12,	6,	40	M.	4	M.	296	5.8	11
1852	21.824		36	0	34 E.	12,	6,	40	M.	1	S.	290	4.3	17
1838	21.758		44	1	20 E.	12,	6,	40	H.	3	N.	171	3.4	18
1836	21.756	22	52	0	20 W.	12,	6,	40	M.	3	A.	298	4.3	19
1744	20.925	23	0	0	34 W.	6,	12,	40	R.	3	A.	215	3.9	15
1760	20.936		8	1	8 W.	6,	12,	40	R.	4	M.	186	3.2	19
1745	20.925		16	1	0 W.	12,	6,	40	R.	3	A.	286	6.0	18
1766	20.939		24	0	25 W.	12,	8,	40	M.	1	R.	192	3.8	25
1754	20.931		32	0	2 W.	12,	6,	40	M.	4	M.	132	2.3	17
1761	20.936		40	1	15 W.	6,	12,	40	R.	1	R.	131	2.2	14
1757	20.934		48	0	2 E.	6,	12,	40	S.	3	A.	133	2.6	19
1755	20.931	23	56	0	7 W.	12,	6,	40	M.	4	M.	174	2.1	27



The total number of star images measured in this zone is 88,444.

#### IV.—MEASUREMENT OF THE PHOTOGRAPHS.

See Introduction to Vol. I. p. xiii.

#### V.—DETERMINATION OF PHOTOGRAPHIC MAGNITUDES.

At the time the rectangular co-ordinates are measured an estimation is made of the diameter of the star image. The sum of the estimates made in the two positions of the plate is given in the second column under the heading  $d$  of the Catalogue. The unit is thus  $\frac{1}{2000}$  of a réseau interval, or  $0''.15$  as at Greenwich.

For converting these diameters into photographic magnitudes, the general formula provisionally adopted is

$$m = a - b\sqrt{d},$$

where  $d$  is the diameter (sum of the two estimates) and  $a$  and  $b$  are certain constants.

The value of  $b$  for plates in the present volume is taken throughout as 1.05, and the constant  $a$  is deduced for each plate from a comparison of the magnitudes of the stars given in the Algiers A.G.C. (marked with an asterisk in the present volume). The magnitudes given in the meridian Catalogue are visual and on a scale similar to that of the B.D. By counting the stars under the different headings, these magnitudes were converted so as to conform to a scale comparable with that of Chapman and Melotte. These revised magnitudes were substituted in the above formula and the value of the constant  $a$  was determined for each star on the plate. The mean value of  $a$  thus determined for each plate was adopted.

A table for converting measured diameters into magnitudes is given on pp. xxxviii and xxxix of this volume.

The values of the constants  $a$  and  $b$ , being derived mainly from a consideration of the brighter stars, the formula, as given in the Catalogue at the heading of each plate, is not applicable for determining the magnitudes with any degree of accuracy in the case of the faintest stars. It is found that the magnitudes derived from these formulæ make a faint star less bright than it really is. On the Catalogue plates the faintest stars in the region of best focus are not expected to be beyond 13.0 mag. on the photographic scale.

#### VI.—MEASURES OF POSITION.

##### PERSONALITY OF MEASURER.

The personality of the measurer is determined for each plate after measurement in both direct and reverse positions in the same manner as at Oxford. A full discussion will be found in the *Monthly Notices of the R.A.S.*, vol. lvii. p. 621. The mean excess of the R measure over the D measure is tabulated below in units of  $0''.03$ . The error of bisection is one-half the quantity R—D given in the table.

Measurer.	Mean R—D.		No. of plates.
	$x$	$y$	
M.	+2	—2	47
R.	—3	+3	41
N.	+1	—3	29
S.	—2	+1	24
A.	+2	—1	39



# HYDERABAD ASTROGRAPHIC CATALOGUE.

## PROBABLE ERROR OF THE MEASURES.

See Introduction to Vol. I. pp. xvi–xvii, and Introduction to Vol. II. p. xv.

## ERRORS OF RÉSEAUX.

For purposes of this Catalogue, the errors of the réseaux have been treated as small accidental errors and have not been applied.

## VII.—PLATE CONSTANTS.

The plate constants were determined by the method and formulæ given by Professor Turner in *Monthly Notices of the R.A.S.*, vol. liv. p. 11. The rigorous formulæ obtained in that paper were modified in practice as approximate formulæ more convenient for the formation of tables. See next section, pp. xii to xv. The positions of the reference stars for plates in the present volume were taken from the Algiers Astronomische Gesellschaft Catalogue, a typewritten copy of which was kindly placed at our disposal by the Director of the Paris Observatory as early as 1915. The right ascensions and declinations are given for the epoch 1900·0, the same as that of the Astrographic Catalogue. The method of computing the provisional constants is fully explained in the Introduction to the Oxford Catalogue, vol. i. p. xxxvii; but for convenience of reference it is briefly described below. The R.A.'s and Declinations of stars in the Algiers A.G. Catalogue, occurring in this zone, were first converted into standard co-ordinates by methods explained in the next section. A catalogue of these reference stars with their standard co-ordinates is given in pp. 261–290 of this volume. An approximate solution was then formed for each plate, generally by consideration of only four stars. The scale value was always taken as —·01750 (except in the case of one plate in this volume, No. 2083 R.A. 11 h. 56 m, when it was assumed to be zero); the other constants were chosen to be numbers convenient for computation.

Now, if  $\xi$ ,  $\eta$  represent standard co-ordinates of a star referred to the plate centre as origin, and  $\alpha$ ,  $\delta$  its R.A. and Declination, while  $A$ ,  $D$  stand for the R.A. and Declination of the plate centre, we have

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta, \\ \eta &= k \tan (\theta - D), \\ \text{where } \tan \theta &= \sec (\alpha - A) \tan \delta, \\ \text{and } k &= 687\cdot549 \text{ (reciprocal of circular measure of } 5').\end{aligned}$$

Then, if  $\xi' = \xi + 13$  and  $\eta' = \eta + 13$ ,  $\xi'$ ,  $\eta'$  represent the standard co-ordinates of the star referred to a corner of the réseau, and if  $\Delta\xi'$ ,  $\Delta\eta'$  represent the correction calculated by means of the above approximate solution, we have

$$x' = \xi' + \Delta\xi', \quad y' = \eta' + \Delta\eta'.$$

If  $x$ ,  $y$  represent the actual measures, we can form  $x - x'$ ,  $y - y'$  for each star on the plate. The stars are then divided into four groups (two by the line  $x = 13\cdot0$  and two by the line  $y = 13\cdot0$ ), and the mean values of  $x$ ,  $x - x'$ ,  $y$  and  $y - y'$  are found for each of these groups. We thus get four pairs of equations of the type

$$a\bar{x} + b\bar{y} + c = \overline{x - x'}, \quad d\bar{x} + e\bar{y} + f = \overline{y - y'},$$

where  $\bar{x}$ ,  $\bar{y}$  represent the mean values found.



The six constants  $a, b, c, d, e, f$  are then computed from these four pairs of equations. Finally, the approximate solution is combined with this accurate solution to give

$$\xi' = x - Ax - By - C, \quad \eta' = y - Dx - Ey - F,$$

from which we obtain the equations

$$\xi = x - 13 - Ax - By - C, \quad \eta = y - 13 - Dx - Ey - F,$$

connecting the standard co-ordinates with the measures. The provisional values of the constants  $A, B, C, D, E, F$  are given at the heading of each plate.

Theoretically, when the constants  $A, B, D, E$  are corrected for refraction (see below), we should have  $A=E$  and  $B+D=0$ ; where these relations are not satisfied, it generally happens that the reference stars are not uniformly distributed over the region or that a star or two included in the equations have abnormal residuals, though it is not possible to account in these ways for all cases of discordance. After the plate constants have been determined, they are used to correct the Hyderabad places for comparison with Algiers, and the residuals (in the sense Hyderabad—Algiers) so obtained are entered in ledgers. Except in the case of stars having a sensible proper motion the residuals are generally small, scarcely any exceeding two seconds of arc; in the course of comparison a number of errors have been detected, most of which probably exist only in the typewritten copy and are absent from the original manuscript.

As regards the effect of *differential refraction*, accurate formulæ are given in *Monthly Notices of the R.A.S.*, vol. lvii. p. 135. If  $\beta_0$  is the coefficient of refraction,  $X, Y$  the co-ordinates of the zenith supposed projected on the plate, and  $X, Y, x, y$  are expressed in terms of the focal length of the telescope as unit, the corrections to be applied to the measures  $x, y$  are neglecting terms beyond the first order.

$$\begin{aligned} \Delta x &= \beta_0(1+X^2)x + \beta_0XYy; \\ \Delta y &= \beta_0XYx + \beta_0(1+Y^2)y. \end{aligned}$$

These corrections are tabulated below.

Zone  $-21^\circ$ .—Correction for Refraction in Units of  $\cdot 000001$ .

Hour angle.		$\beta_0(1+X^2).$	$\beta_0XY.$	$\beta_0(1+Y^2).$	Hour angle.		$\beta_0(1+X^2).$	$\beta_0XY.$	$\beta_0(1+Y^2).$
h	m				h	m			
0	0	283	0	461	1	36	368	130	482
	8	284	10	461		44	386	145	486
	16	285	19	462	1	52	406	160	491
	24	288	29	462	2	0	429	176	496
	32	291	39	464		8	455	194	502
	40	296	49	465		16	485	214	509
	48	302	59	466		24	520	235	516
0	56	309	70	468		32	559	258	525
1	4	318	81	469		40	605	284	534
	12	328	92	472		48	658	313	545
	20	340	104	475	2	56	720	347	558
1	28	353	117	479	3	4	793	384	573

Thus the corrections at hour angle  $2^h 0^m$  are

$$\begin{aligned} \Delta x &= +\cdot 000429x + \cdot 000176y, \\ \Delta y &= -\cdot 000176x + \cdot 000496y, \end{aligned}$$

the upper sign to be taken when the plates are taken west of the meridian.



The corrections for differential aberration are—

$$\begin{aligned}\Delta x &= +K \cos CW \cdot x, \\ \Delta y &= +K \cos CW \cdot y,\end{aligned}$$

where C is the plate centre and W is the point on the Ecliptic to which the Earth tends. We have

$$K \cos CW = 0.000100 \{-0.40 \sin D \cos \odot - 0.96 \cos D \sin (A - \odot)\}$$

where  $\odot$  is the sun's longitude, neglecting a small term

$$0.000004 \cos D \sin (A + \odot)$$

For plates in the present volume  $D = -21^\circ$ , and therefore

$$K \cos CW = +0.00014 \cos \odot - 0.00090 \sin (A - \odot).$$

It will make very little difference if we substitute the sun's R.A. for the longitude, then for a plate taken on the meridian at midnight  $A - \odot = 180^\circ$ , and the second term vanishes.

For plates taken on the meridian at other times, the second term has the following values (unit 0.000001):—

6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .
-90	-87	-78	-64	-45	-23	0	+23	+45	+64	+78	+87	+90

The first term has the following values at the middle of each month in units of 0.000001:—

Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
+6	+12	+14	+13	+8	+1	-5	-11	-14	-13	-9	-2

Thus the  $x$  and  $y$  measures of a star taken on the meridian at 8 hours in April require the corrections  $-0.00065x$  and  $-0.00065y$  respectively for differential aberration.

## VIII.—DETERMINATION OF A STAR'S STANDARD CO-ORDINATES FROM ITS R.A. AND DECLINATION: AND OF ITS R.A. AND DECLINATION FROM ITS MEASURED CO-ORDINATES.

From the provisional constants given at the head of each plate, the standard co-ordinates of a star are obtained from the measures by the formulæ

$$\begin{aligned}\xi &= x - 13 - Ax - By - C, \\ \eta &= y - 13 - Dx - Ey - F.\end{aligned}$$

Increasing  $x$  corresponds to increasing R.A., and increasing  $y$  corresponds to increasing N.P.D.

The "standard co-ordinates"  $\xi, \eta$  of a star are derived from its R.A. and Declination, by the purely geometrical formulæ

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta, \\ \eta &= k \tan (\theta - D), \\ \tan \theta &= \sec (\alpha - A) \tan \delta \text{ and } k = 687.549,\end{aligned}$$

where A, D are the R.A. and Decl. of the plate centre,  $\alpha, \delta$  those of the star.

For zones not too near the pole, it is more convenient to use the following approximate formulæ:—

Let

$$\begin{aligned}X &= \alpha - A \text{ expressed in units of } 20'' , \\ Y &= \delta - D \text{ expressed in units of } 300'' .\end{aligned}$$



Then, with sufficient accuracy, we have, for the Hyderabad zones,

$$\eta = Y + \left(\frac{1}{4} \mu \sin 2D\right) \cdot X^2 + \frac{1}{8} \mu^2 (2Y^3 + 3X^2 \cdot Y \cdot \cos 2D),$$

where

$$\mu = 1/k = .00145444 \text{ (=circular measure of } 5').$$

Table I. gives the value of the term  $\frac{1}{4} \mu \sin 2D \cdot X^2$  for different values of  $X$ , when  $D = -21^\circ$ . The small quantity of  $\frac{1}{8} \mu^2 (2Y^3 + 3X^2 \cdot Y \cdot \cos 2D)$  is given in Table II. (Arguments  $X$  and  $Y$ ). Thus we have

$$\begin{aligned} \eta &= Y + \text{Table I.} + \text{Table II.}, \\ \text{and } Y &= \eta - \text{Table I.} - \text{Table II.} \end{aligned}$$

Therefore, when  $X$  is known, we can obtain  $\eta$  from  $Y$  or vice versa.

To get  $\xi$  from  $X$ , tables have been constructed in the present volume for two alternative methods, one set using logarithmic tables and the other without using them.

(i.) With logarithms.—We have

$$\begin{aligned} \xi &= \tan(\alpha - A) \cdot \{\sin D \cdot (k \cot D - \eta)\} \quad . \quad . \quad . \quad (1) \\ \text{or } \xi &= X(1 + \frac{1}{3} \mu^2 \cdot X^2) \{\mu \cos D \cdot \tan D_0 (k \cot D_0 - \eta)\} \quad . \quad . \quad . \quad (2) \end{aligned}$$

Consider (i.). We have for  $D = 21^\circ$

$$\log \{\sin D (k \cot D - \eta)\} = \log \sin 21^\circ + \log (1791.127 - \eta).$$

Now if for  $\log (1791.127 - \eta)$  we write  $\log (1791.1 - \eta)$ , we can read the values of this term for  $\eta = 0.0, 0.1, 0.2 \dots$  directly from the tables without interpolation. Representing the corresponding value of  $D$  by  $D_0$ , which is very nearly the same as  $D$ , we have

$$\sin D (k \cot D - \eta) = \sin D \cdot \frac{k \cot D - \eta}{k \cot D_0 - \eta} (k \cot D_0 - \eta),$$

in the fractional term of which we may give  $\eta$  its mean value, zero, to a very close degree of approximation, thus we get the form (2).

Table V. gives the values of  $\log (1 + \frac{1}{3} \mu^2 \cdot X^2)$ , and is the same for all zones.

Table III. gives the values of  $[\text{const.} + \log \{\mu \cos D \cdot \tan D_0 (k \cot D_0 - \eta)\}]$ . Argument  $\eta$  in multiples of 0.1000.

Table IV. gives the corrections for the fractional part of  $\eta$  beyond the first decimal place.

Thus  $\xi$  is computed from the formulæ

$$\begin{aligned} \log \xi &= \log X + \text{Table III. (Arg. } \eta \text{ to } 0.1) \\ &\quad + \text{Table IV. (Arg. fractional part of } \eta \text{ beyond the 1st decimal place)} \\ &\quad + \text{Table V. (Arg. } X). \end{aligned}$$

(ii.) Without logarithms.—When  $X$  is constant we have  $\xi = M - N \cdot \eta$ , so that the differences in  $\eta$  are constant. When  $\eta$  is constant we have  $\xi = MX(1 + \frac{1}{3} \mu^2 \cdot X^2)$ , so that the differences are not quite uniform; but from a sufficiently extended table for  $X$ , we can safely interpolate as Tables IX. and X. will show.

It is to be noted that in these tables, the above formula has been transformed from  $(X \cdot \eta)$  to  $(X \cdot Y)$ .

As an example of both methods of calculation take the star A.G.C. Algiers 9994, whose standard co-ordinates are given on p. 263.

	R.A. (1900.0).	Declination (1900.0).
Algiers 9994 . . . . .	23 <sup>h</sup> 59 <sup>m</sup> 29.31	—19° 59' 40".1
Plate centre . . . . .	0 <sup>h</sup> 4 <sup>m</sup> 08	—21° 0' 0"
∴ $X = -13.5345$		$Y = -12.0663$



Y	= -12.0663	log X	= 1.131442
Table I.	= + .0445	Table III.	= 9.973028
Table II.	= - .29	Table IV.	= .30
		Table V.	= .56
$\eta = \text{sum}$	= -12.0247		
$\eta' = 13 + \eta$	= 0.9753	log $\xi = \text{sum}$	= 1.104556
		$\xi$	= -12.7220
		$\xi' = 13 + \xi$	= 0.2780

Without logarithms, the computations for  $\xi$  would stand thus; since Y is negative, we refer to Table IX., which is headed  $\xi = X - \frac{1}{20}X - \frac{1}{100}X$ —following table, hence we have

$$\begin{aligned}
 X &= -13.5345 \\
 -\frac{1}{20}X &= +.6767 \\
 -\frac{1}{100}X &= +.1353 \\
 -\text{Table IX} &= +.4 \\
 \hline
 \xi &= -12.7221 \\
 \therefore \xi' &= 13 + \xi = 0.2779
 \end{aligned}$$

For obtaining the R.A. and Declination from the measures, the standard co-ordinates have to be computed first by means of the formulæ

$$\begin{aligned}
 \xi &= X - 13 - Ax - By - C, \\
 \eta &= Y - 13 - Dx - Ey - F.
 \end{aligned}$$

Then by the first method we have

$$\begin{aligned}
 \log X &= \log \xi \\
 &+ \text{Table VI. (Arg. } \xi). \\
 &+ \text{Table VII. (Arg. } \eta \text{ to } 0.1). \\
 &+ \text{Table VIII. (Arg. fractional part of } \eta \text{ beyond the first decimal).}
 \end{aligned}$$

With the value of X thus obtained, we can form  $\eta$ —Table I., and so find a sufficiently approximate value of Y to enter Table II.

As an example let us take the same star as before, viz. Hyderabad  $-21^\circ, 1$ , whose measures are given on page 3 of the present volume.

x	= 0.054	y	= 0.817
-Ax	= + .1	-Dx	= + .0
-By	= - .5	-Ey	= + .14
-C	= + .228	-F	= + .148
$\xi'$	= 0.278	$\eta'$	= 0.979
$\xi$	= -12.722	$\eta$	= -12.021
log $\xi$	= 1.104555	Table I.	= - .0445
Table VI.	= .2	Table II.	= - .0032
Table VII.	= 0.026865		
Table VIII.	= .19		
sum=log X	= 1.131441		
X	= -13.5345	Y	= -12.069
	= $-4^m 30^s.69$		= $-1^\circ 0' 20''.7$ .



The co-ordinates of the plate centre being R.A.  $0^h 4^m$  and Decl.  $-21^\circ$ , the R.A. and Declination of the star for the epoch 1900-0 are—

$$23^h 59^m 29^s.31 \qquad -19^\circ 59' 39''.3.$$

The small differences occurring between the values computed from the Hyderabad measures and those given in the Algiers A.G. Catalogue are the sum of—

- (1) Accidental or systematic errors in the Algiers meridian place.
- (2) Accidental or systematic errors in the photographic place, including the effect of  
(1) on the plate constants.
- (3) Proper motions between the epochs of the two observations.

The computation of  $\xi'$ ,  $\eta'$  from  $x$ ,  $y$  is made only to three places of decimals. With the rather large scale value which has been inevitable with the Hyderabad plates, it would require a little care to calculate the fourth place accurately; but since the measures are made only to three places, the extra labour involved is scarcely justified, and will hardly make a difference of as much as one unit in the third decimal place.

Without the use of logarithms, the computation for  $X$  stands thus :—

Since  $\eta$  is negative, we refer to Table XI., the precept at the head of which is  $X = \xi + \frac{1}{16} \xi +$  following table.

$$\begin{array}{r} \xi = -12.7220 \\ + \frac{1}{16} \xi = -0.7951 \\ + \text{Table XII.} = -0.173 \\ \hline X = -13.5344 \end{array}$$

Differences of one or two units in the fourth place, when different approximate methods of computation are employed, are unavoidable, and may be neglected.

T. P. BHASKARAN.

NIZAMIAH OBSERVATORY,  
HYDERABAD (DECCAN).  
INDIA.







# HYDERABAD ASTROGRAPHIC CATALOGUE

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## T A B L E S

FOR THE CONVERSION OF

R.A. AND DEC. INTO STANDARD CO-ORDINATES

AND OF

STANDARD CO-ORDINATES INTO R.A. AND DEC.

FOR PLATES WITH CENTRES IN

DEC.  $-21^{\circ}$

---

BOTH WITH AND WITHOUT LOGARITHMS







TABLE I.—For  $D = -21^\circ$ .

$$\Delta_1 Y = \frac{\mu}{4} \sin 2D. X^2 = .0002433 X^2.$$

Always additive to  $Y$  to get  $\eta$ . Always subtractive from  $\eta$  to get  $Y$ .

$\Delta_2 Y$  is given in Table II.

X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$	X.	$\Delta_1 Y.$
0.0-0.4	.0000	4.0	.0039	7.7	.0144	11.4	.0316
0.5	.0001	4.1	.0041	7.8	.0148	11.5	.0322
0.6	.0001	4.2	.0043	7.9	.0152	11.6	.0327
0.7	.0001	4.3	.0045	8.0	.0156	11.7	.0333
0.8	.0002	4.4	.0047	8.1	.0160	11.8	.0339
0.9	.0002	4.5	.0049	8.2	.0164	11.9	.0344
1.0	.0002	4.6	.0051	8.3	.0168	12.0	.0350
1.1	.0003	4.7	.0054	8.4	.0172	12.1	.0356
1.2	.0004	4.8	.0056	8.5	.0176	12.2	.0362
1.3	.0004	4.9	.0058	8.6	.0180	12.3	.0368
1.4	.0005	5.0	.0061	8.7	.0184	12.4	.0374
1.5	.0005	5.1	.0063	8.8	.0188	12.5	.0380
1.6	.0006	5.2	.0066	8.9	.0193	12.6	.0386
1.7	.0007	5.3	.0068	9.0	.0197	12.7	.0392
1.8	.0008	5.4	.0071	9.1	.0201	12.8	.0399
1.9	.0009	5.5	.0074	9.2	.0206	12.9	.0405
2.0	.0010	5.6	.0076	9.3	.0210	13.0	.0411
2.1	.0011	5.7	.0079	9.4	.0215	13.1	.0418
2.2	.0012	5.8	.0082	9.5	.0220	13.2	.0424
2.3	.0013	5.9	.0085	9.6	.0224	13.3	.0430
2.4	.0014	6.0	.0088	9.7	.0229	13.4	.0437
2.5	.0015	6.1	.0091	9.8	.0234	13.5	.0443
2.6	.0016	6.2	.0094	9.9	.0238	13.6	.0450
2.7	.0018	6.3	.0097	10.0	.0243	13.7	.0457
2.8	.0019	6.4	.0100	10.1	.0248	13.8	.0463
2.9	.0020	6.5	.0103	10.2	.0253	13.9	.0470
3.0	.0022	6.6	.0106	10.3	.0258	14.0	.0477
3.1	.0023	6.7	.0109	10.4	.0263	14.1	.0484
3.2	.0025	6.8	.0113	10.5	.0268	14.2	.0491
3.3	.0027	6.9	.0116	10.6	.0273	14.3	.0497
3.4	.0028	7.0	.0119	10.7	.0279	14.4	.0505
3.5	.0030	7.1	.0123	10.8	.0284	14.5	.0512
3.6	.0032	7.2	.0126	10.9	.0289	14.6	.0519
3.7	.0033	7.3	.0130	11.0	.0294	14.7	.0526
3.8	.0035	7.4	.0133	11.1	.0300	14.8	.0533
3.9	.0037	7.5	.0137	11.2	.0305	14.9	.0540
		7.6	.0141	11.3	.0311	15.0	.0547



TABLE II.—For  $D = -21^\circ$ .

$$\Delta_2 Y = \frac{1}{6} \mu^2 (2Y^3 + 3X^2 Y \cos 2D) = .000000705 Y^3 + .000000786 X^2 \cdot Y.$$

Additive to Y with same sign as Y to get  $\eta$     Additive to  $\eta$  with opposite sign to  $\eta$  to get Y.

Y. or $\eta$	X.	0.	1	2.	3	4.	5.	6	7	8	9	10	10.5	11	11.5	12.	12.5	13.	13.5.	14.	14.5	15.	X. Y or $\eta$
R.I.		Unit=.0001 of a Reseau Interval.																					R.I.
0.5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0.5
1.0		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	1.0
1.5		0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	3	1.5
2.0		0	0	0	0	0	0	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4	2.0
2.5		0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	2.5
3.0		0	0	0	0	1	1	1	1	2	2	3	3	3	3	4	4	4	4	5	5	6	3.0
3.5		0	0	0	0	1	1	1	2	2	2	3	3	4	4	4	5	5	5	6	6	7	3.5
4.0		0	0	1	1	1	1	2	2	2	3	4	4	4	5	5	5	6	6	7	7	8	4.0
4.5		1	1	1	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	7	8	9	4.5
5.0		1	1	1	1	1	2	2	3	3	4	5	5	6	6	7	7	7	8	9	9	10	5.0
5.5		1	1	1	2	2	2	3	3	4	5	5	6	6	7	7	8	8	9	10	10	11	5.5
6.0		2	2	2	2	2	3	3	4	4	5	6	7	7	8	8	9	9	10	11	11	12	6.0
6.5		2	2	2	2	3	3	4	4	5	6	7	7	8	9	9	10	10	11	12	13	13	6.5
7.0		2	2	3	3	3	4	4	5	6	7	8	8	9	10	10	11	12	12	13	14	15	7.0
7.5		3	3	3	3	4	4	5	6	7	8	9	9	10	11	11	12	13	14	15	15	16	7.5
8.0		4	4	4	4	5	5	6	7	8	8	10	10	11	12	13	13	14	15	16	17	18	8.0
8.5		4	4	5	5	5	6	7	8	9	10	11	12	12	13	14	15	16	16	17	18	19	8.5
9.0		5	5	5	6	6	7	8	9	10	11	12	13	14	14	15	16	17	18	19	20	21	9.0
9.5		6	6	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	9.5
10.0		7	7	7	8	8	9	10	11	12	13	15	16	17	17	18	19	20	21	22	24	25	10.0
10.5		8	8	8	9	9	10	11	12	13	15	16	17	18	19	20	21	22	23	24	26	27	10.5
11.0		9	9	10	10	11	12	12	14	15	16	18	19	20	21	22	23	24	25	26	28	29	11.0
11.5		11	11	11	11	12	13	14	15	16	18	20	21	22	23	24	25	26	27	28	30	31	11.5
12.0		12	12	13	13	14	15	16	17	18	20	22	23	24	25	26	27	28	29	31	32	33	12.0
12.5		14	14	14	15	15	16	17	19	20	22	23	25	26	27	28	29	30	32	33	34	36	12.5
13.0		15	16	16	16	17	18	19	20	22	24	26	27	28	29	30	31	33	34	35	37	38	13.0



For  $D = -21^\circ$  and  $\eta$  Positive.

Add to log. X (with Table V.) to get log.  $\xi$ .

TABLE III.

Argument,  $\eta$  to 0.1. *Not to be interpolated.*

$\eta$		0	.1	.2	3	4	.5	.6	.7	.8	9.
+12	9.96	7208	7183	7159	7135	7110	7086	7061	7037	7012	6988
+11	9.96	7452	7427	7403	7379	7354	7329	7305	7281	7257	7232
+10	9.96	7696	7671	7647	7623	7598	7574	7549	7525	7501	7476
+9	9.96	7940	7915	7891	7866	7842	7818	7793	7769	7745	7720
+8	9.96	8183	8159	8134	8110	8086	8061	8037	8013	7988	7964
+7	9.96	8427	8402	8378	8354	8329	8305	8281	8256	8232	8208
+6	9.96	8670	8646	8621	8597	8573	8548	8524	8500	8475	8451
+5	9.96	8913	8889	8865	8840	8816	8792	8767	8743	8719	8694
+4	9.96	9156	9132	9108	9083	9059	9035	9011	8986	8962	8938
+3	9.96	9399	9375	9351	9326	9302	9278	9254	9229	9205	9181
+2	9.96	9642	9618	9594	9569	9545	9521	9497	9472	9448	9424
+1	9.96	9885	9861	9836	9812	9788	9764	9739	9715	9691	9666
+0	9.96							9982	9958	9934	9909
+0	9.97	0128	0103	0079	0055	0030	0006				

	.000	.001	.002	.003	.004	.005	.006	.007	.008	.009
.09	2	2	2	2	1	1	1	1	0	0
.08	5	5	4	4	4	4	3	3	3	3
.07	7	7	7	7	6	6	6	6	5	5
.06	10	9	9	9	9	8	8	8	8	8
.05	12	12	12	11	11	11	11	10	10	10
.04	15	14	14	14	14	13	13	13	13	12
.03	17	17	16	16	16	15	15	15	15	15
.02	19	19	19	19	18	18	18	18	17	17
.01	22	22	21	21	21	20	20	20	20	19
00	24	24	24	23	23	23	23	23	22	22

Unit=.000001.

For  $D = -21^\circ$  and  $\eta$  Negative.

Add to log. X (with Table V.) to get log.  $\xi$ .

TABLE III.

Argument,  $\eta$  to 0.1. *Not to be interpolated.*

TABLE IV.

Add for remainder of  $\eta$ .

$\eta$		0	1.	.2	.3	.4	.5	.6	.7	.8	9.
-0	9.97	0128	0152	0176	0200	0224	0249	0273	0297	0321	0346
-1	9.97	0370	0394	0418	0443	0467	0491	0515	0539	0564	0588
-2	9.97	0612	0636	0661	0685	0709	0733	0757	0782	0806	0830
-3	9.97	0854	0878	0903	0927	0951	0975	1000	1024	1048	1072
-4	9.97	1096	1120	1145	1169	1193	1217	1241	1266	1290	1314
-5	9.97	1338	1362	1387	1411	1435	1459	1483	1507	1532	1556
-6	9.97	1580	1604	1628	1652	1677	1701	1725	1749	1773	1797
-7	9.97	1822	1846	1870	1894	1918	1942	1966	1990	2015	2039
-8	9.97	2063	2087	2111	2135	2160	2184	2208	2232	2256	2280
-9	9.97	2304	2328	2353	2377	2401	2425	2449	2473	2497	2521
-10	9.97	2546	2570	2594	2618	2642	2666	2690	2714	2738	2763
-11	9.97	2787	2811	2835	2859	2883	2907	2931	2955	2979	3003
-12	9.97	3028	3052	3076	3100	3124	3148	3172	3196	3220	3244

	.000	.001	.002	.003	.004	.005	.006	.007	.008	.009
.00	24	24	25	25	25	25	26	26	26	26
.01	27	27	27	27	28	28	28	28	29	29
.02	29	29	30	30	30	30	30	31	31	31
.03	31	32	32	32	32	33	33	33	33	34
.04	34	34	34	35	35	35	35	36	36	36
.05	36	37	37	37	37	38	38	38	38	38
.06	39	39	39	39	40	40	40	40	41	41
.07	41	41	42	42	42	43	43	43	43	43
.08	44	44	44	44	45	45	45	45	45	46
.09	46	46	46	47	47	47	47	48	48	48

Unit=.000001



*All Zones.*For  $D = -21^\circ$ .

TABLE V.

$$\frac{1}{3} \mu^2 \log_{10} e \times X^2 = .000000306 X^2.$$

Add to log. X (with Tables III., IV.)  
to get log  $\xi$ .

X.	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
1	0	0	0	1	1	1	1	1	1	1
2	1	1	1	2	2	2	2	2	2	3
3	3	3	3	3	4	4	4	4	4	5
4	5	5	5	6	6	6	6	7	7	7
5	8	8	8	9	9	9	10	10	10	11
6	11	11	12	12	13	13	13	14	14	15
7	15	15	16	16	17	17	18	18	19	19
8	20	20	21	21	22	22	23	23	24	24
9	25	25	26	26	27	28	28	29	29	30
10	31	31	32	32	33	34	34	35	36	36
11	37	38	38	39	40	40	41	42	43	43
12	44	45	46	46	47	48	49	49	50	51
13	52	53	53	54	55	56	57	58	58	59
14	60	61	62	62	63	64	65	66	67	68
15	69	70	71	72	73	73	74	75	76	77

Unit = .000001.

TABLE VI.

$$\text{Const.} - \frac{1}{3} \mu^2 \log_{10} e \cdot \sec^2 D \cdot \xi^2 \\ = .000059 - .000000351 \xi^2.$$

Add to log.  $\xi$  to get log. X.

$\xi$	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
0	59	59	59	59	59	59	59	59	59	59
1	59	59	58	58	58	58	58	58	58	58
2	58	57	57	57	57	57	57	56	56	56
3	56	56	55	55	55	55	54	54	54	54
4	53	53	53	53	52	52	52	51	51	51
5	50	50	50	49	49	48	48	48	47	47
6	46	46	45	45	45	44	44	43	43	42
7	42	41	41	40	40	39	39	38	38	37
8	37	36	35	35	34	34	33	32	32	31
9	31	30	29	29	28	28	27	26	25	25
10	24	23	22	22	21	20	20	19	18	17
11	16	16	15	14	13	13	12	11	10	9
12	8	8	7	6	5	4	3	2	1	1

Unit = .000001.



For  $D = -21^\circ$  and  $\eta$  Positive.Add to log.  $\xi$  to get (with Table VI.) log.  $X$ .

TABLE VII.

Argument,  $\eta$  to 0.1. Not to be interpolated.

TABLE VIII.

Add for Remainder of  $\eta$ 

$\eta$ .		0	1	2	3	4	5	6	7	8	9			000	001	002	003	004	005	006	007	008	009
+12	0.03	2685	2710	2734	2758	2783	2807	2832	2856	2881	2905		09	46	46	46	47	47	47	47	48	48	48
+11	0.03	2441	2466	2490	2514	2539	2564	2588	2612	2636	2661		08	44	44	44	44	45	45	45	45	45	46
+10	0.03	2197	2222	2246	2270	2295	2319	2344	2368	2392	2417		07	41	41	42	42	42	42	43	43	43	43
+9	0.03	1953	1978	2002	2027	2051	2075	2100	2124	2148	2173		06	39	39	39	39	40	40	40	40	41	41
+8	0.03	1710	1734	1759	1783	1807	1832	1856	1880	1905	1929		05	36	37	37	37	37	38	38	38	38	38
+7	0.03	1466	1491	1515	1539	1564	1588	1612	1637	1661	1685		04	34	34	34	35	35	35	35	36	36	36
+6	0.03	1223	1247	1272	1296	1320	1345	1369	1393	1418	1442		03	31	32	32	32	32	33	33	33	33	34
+5	0.03	0980	1004	1028	1053	1077	1101	1126	1150	1174	1199		02	29	29	30	30	30	30	30	31	31	31
+4	0.03	0737	0761	0785	0810	0834	0858	0882	0907	0931	0955		01	27	27	27	27	28	28	28	28	29	29
+3	0.03	0494	0518	0542	0567	0591	0615	0639	0664	0688	0712		00	24	24	25	25	25	25	26	26	26	26
+2	0.03	0251	0275	0299	0324	0348	0372	0396	0421	0445	0469												
+1	0.03	0008	0032	0057	0081	0105	0129	0154	0178	0202	0227												
+0	0.02	9765	9790	9814	9838	9863	9887	9911	9935	9959	9984												

Unit=0.00001.

For  $D = -21^\circ$  and  $\eta$  Negative.Add to log.  $\xi$  to get (with Table VI.) log.  $X$ .

TABLE VII.

Argument,  $\eta$  to 0.1. Not to be interpolated.

TABLE VIII.

Add for Remainder of  $\eta$ .

$\eta$ .		0	1	2	3	4	5	6	7	8	9			000	001	002	003	004	005	006	007	008	009
-0	0.02	9765	9741	9717	9693	9669	9644	9620	9596	9572	9547		00	24	24	24	23	23	23	23	23	22	22
-1	0.02	9523	9499	9475	9450	9426	9402	9378	9354	9329	9305		01	22	22	21	21	21	21	20	20	20	19
-2	0.02	9281	9257	9232	9208	9184	9160	9136	9111	9087	9063		02	19	19	19	19	18	18	18	17	17	17
-3	0.02	9039	9015	8990	8966	8942	8918	8893	8869	8845	8821		03	17	17	16	16	16	16	15	15	15	15
-4	0.02	8797	8773	8748	8724	8700	8676	8652	8627	8603	8579		04	15	14	14	14	14	13	13	13	13	12
-5	0.02	8555	8531	8506	8482	8458	8434	8410	8386	8361	8337		05	12	12	12	11	11	11	11	10	10	10
-6	0.02	8313	8289	8265	8241	8216	8192	8168	8144	8120	8096		06	10	9	9	9	9	8	8	8	8	8
-7	0.02	8071	8047	8023	7999	7975	7951	7927	7903	7878	7854		07	7	7	7	7	6	6	6	5	5	5
-8	0.02	7830	7806	7782	7758	7733	7709	7685	7661	7637	7613		08	5	5	4	4	4	4	3	3	3	3
-9	0.02	7589	7565	7540	7516	7492	7468	7444	7420	7396	7372		09	2	2	2	2	1	1	1	1	0	0
-10	0.02	7347	7323	7299	7275	7251	7227	7203	7179	7155	7130												
-11	0.02	7106	7082	7058	7034	7010	6986	6962	6938	6914	6890												
-12	0.02	6865	6841	6817	6793	6769	6745	6721	6697	6673	6649												

Unit=0.00001.



TABLE IX.—For  $D = -21^\circ$ .

Y Negative.

 $\xi = X - \frac{1}{20}X - \frac{1}{100}X$  — following table.

X Y	1	2.	3	4	5	6.	7	8	9	10	11	12	13	14.	15	X Y
-13.0	.0004	.0007	.0011	.0014	.0018	.0022	.0027	.0031	.0036	.0041	.0046	.0052	.0058	.0064	.0071	-13.0
-12.9	.0003	.0006	.0009	.0012	.0016	.0019	.0023	.0027	.0031	.0036	.0040	.0046	.0051	.0057	.0064	-12.9
8	.002	.005	.008	.010	.013	.016	.019	.023	.027	.030	.035	.039	.044	.050	.056	8
7	.002	.004	.006	.008	.011	.013	.016	.019	.022	.025	.029	.033	.038	.043	.048	7
6	.001	.003	.005	.006	.008	.010	.012	.015	.017	.020	.023	.027	.031	.035	.040	6
5	.001	.002	.003	.004	.005	.007	.009	.010	.012	.015	.018	.021	.024	.028	.032	5
4	.000	.001	.001	.002	.003	.004	.005	.006	.008	.010	.012	.014	.017	.021	.025	4
3	.000	.000	.000	.000	.000	.001	.001	.002	.003	.004	.006	.008	.011	.014	.017	3
2	.001	.001	.002	.002	.002	.002	.002	.002	.002	.001	.000	.002	.004	.006	.009	2
1	.001	.002	.003	.004	.005	.006	.006	.006	.006	.006	.005	.004	.003	.001	.001	1
-12.0	.002	.003	.005	.006	.008	.009	.010	.010	.011	.011	.011	.011	.010	.008	.007	-12.0
-11.9	.0002	.0004	.0006	.0008	.0010	.0012	.0013	.0015	.0016	.0016	.0017	.0017	.0016	.0016	.0015	-11.9
8	.003	.005	.008	.010	.013	.015	.017	.019	.020	.022	.022	.023	.023	.023	.022	8
7	.003	.006	.009	.012	.015	.018	.021	.023	.025	.027	.028	.029	.030	.030	.030	7
6	.004	.007	.011	.015	.018	.021	.024	.027	.030	.032	.034	.036	.037	.038	.038	6
5	.004	.008	.013	.017	.021	.024	.028	.031	.034	.037	.040	.042	.043	.045	.046	5
4	.005	.009	.014	.019	.023	.027	.031	.035	.039	.042	.045	.048	.050	.052	.054	4
3	.005	.010	.016	.021	.026	.031	.035	.040	.044	.048	.051	.054	.057	.060	.062	3
2	.006	.011	.017	.023	.028	.034	.039	.044	.048	.053	.057	.061	.064	.067	.069	2
1	.006	.013	.019	.025	.031	.037	.042	.048	.053	.058	.063	.067	.071	.074	.077	1
-11.0	.007	.014	.020	.027	.034	.040	.046	.052	.058	.063	.068	.073	.077	.081	.085	-11.0
-10.9	.0007	.0015	.0022	.0029	.0036	.0043	.0050	.0056	.0062	.0068	.0074	.0079	.0084	.0089	.0093	-10.9
8	.008	.016	.024	.031	.039	.046	.053	.060	.067	.074	.080	.086	.091	.096	.100	8
7	.008	.017	.025	.033	.042	.049	.057	.065	.072	.079	.085	.092	.098	.103	.108	7
6	.009	.018	.027	.036	.044	.053	.061	.069	.077	.084	.091	.098	.105	.111	.116	6
5	.010	.019	.028	.038	.047	.056	.064	.073	.081	.089	.097	.104	.111	.118	.124	5
4	.010	.020	.030	.040	.049	.059	.068	.077	.086	.095	.103	.111	.118	.125	.132	4
3	.010	.021	.031	.042	.052	.062	.072	.081	.091	.100	.108	.117	.125	.132	.140	3
2	.011	.022	.033	.044	.055	.065	.075	.085	.095	.105	.114	.123	.132	.140	.147	2
1	.012	.023	.034	.046	.057	.068	.079	.090	.100	.110	.120	.129	.138	.147	.155	1
-10.0	.012	.024	.036	.048	.060	.071	.083	.094	.105	.115	.126	.136	.145	.154	.163	-10.0
-9.9	.0013	.0025	.0038	.0050	.0062	.0074	.0086	.0098	.0109	.0121	.0131	.0142	.0152	.0162	.0171	-9.9
8	.013	.026	.039	.052	.065	.078	.090	.102	.114	.126	.137	.148	.159	.169	.179	8
7	.014	.027	.041	.054	.068	.081	.094	.106	.119	.131	.143	.154	.166	.176	.187	7
6	.014	.028	.042	.056	.070	.084	.097	.110	.124	.136	.149	.161	.172	.184	.194	6
5	.015	.029	.044	.058	.073	.087	.101	.115	.128	.141	.154	.167	.179	.191	.202	5
4	.015	.030	.045	.060	.075	.090	.104	.119	.133	.147	.160	.173	.186	.198	.210	4
3	.016	.031	.047	.063	.078	.093	.108	.123	.138	.152	.166	.179	.193	.205	.218	3
2	.016	.032	.048	.065	.081	.096	.112	.127	.142	.157	.172	.186	.199	.213	.226	2
1	.017	.033	.050	.067	.083	.100	.116	.131	.147	.162	.177	.192	.206	.220	.234	1
-9.0	.017	.034	.052	.069	.086	.103	.119	.136	.152	.168	.183	.198	.213	.227	.241	-9.0
-8.9	.0018	.0036	.0053	.0071	.0088	.0106	.0123	.0140	.0156	.0173	.0189	.0204	.0220	.0235	.0249	-8.9
8	.018	.037	.055	.073	.091	.109	.126	.144	.161	.178	.194	.211	.227	.242	.257	8
7	.019	.038	.056	.075	.094	.112	.130	.148	.166	.183	.200	.217	.233	.249	.265	7
6	.019	.039	.058	.077	.096	.115	.134	.152	.170	.188	.206	.223	.240	.257	.273	6
5	.020	.040	.060	.079	.099	.118	.137	.156	.175	.194	.212	.230	.247	.264	.280	5
4	.020	.041	.061	.081	.101	.121	.141	.160	.180	.199	.217	.236	.254	.271	.288	4
3	.021	.042	.063	.083	.104	.124	.145	.165	.184	.204	.223	.242	.260	.278	.296	3
2	.021	.043	.064	.086	.107	.128	.148	.169	.189	.209	.229	.248	.267	.286	.304	2
1	.022	.044	.066	.088	.109	.131	.152	.173	.194	.214	.235	.255	.274	.293	.312	1
-8.0	.022	.045	.067	.090	.112	.134	.156	.177	.199	.220	.240	.261	.281	.300	.320	-8.0

NOTE.—The numbers in italics are negative.



TABLE IX. *continued.*—For  $D = -21^\circ$ .**Y Negative.** $\xi = X - \frac{1}{20} X - \frac{1}{100} X$  — following table.

X Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X Y.
— 7.9	0023	0046	0069	0092	0114	0137	0159	0181	0203	0225	0246	0267	0288	0308	0327	— 7.9
8	024	047	070	094	117	140	163	186	208	230	252	273	294	315	335	8
7	024	048	072	096	120	143	166	190	213	235	258	280	301	322	343	7
6	025	049	074	098	122	146	170	194	217	240	263	286	308	330	351	6
5	025	050	075	100	125	150	174	198	222	246	269	292	315	337	358	5
4	026	051	077	102	128	153	178	202	227	251	275	298	322	344	366	4
3	026	052	078	104	130	156	181	206	232	256	280	305	328	352	374	3
2	027	053	080	106	133	159	185	211	236	261	286	311	335	359	382	2
1	027	054	081	108	135	162	188	215	241	267	292	317	342	366	390	1
— 7.0	028	055	083	110	138	165	192	219	246	272	298	323	348	373	398	— 7.0
— 6.9	0028	0056	0084	0113	0141	0168	0196	0223	0250	0277	0303	0330	0355	0381	0405	— 6.9
8	029	057	086	115	143	171	199	227	255	282	309	336	362	388	413	8
7	029	058	088	117	146	175	203	231	260	288	315	342	369	395	421	7
6	030	060	089	119	148	178	207	236	264	293	321	348	376	403	429	6
5	030	060	091	121	151	181	210	240	269	298	326	355	382	410	437	5
4	031	062	092	123	154	184	214	244	274	303	332	361	389	417	445	4
3	031	063	094	125	156	187	218	248	278	308	338	367	396	424	452	3
2	032	064	095	127	159	190	221	252	283	314	344	373	403	432	460	2
1	032	065	097	129	161	193	225	256	288	319	349	380	410	439	468	1
— 6.0	033	066	099	131	164	196	228	261	292	324	355	386	416	446	476	— 6.0
— 5.9	0033	0067	0100	0134	0167	0200	0232	0265	0297	0329	0361	0392	0423	0454	0484	— 5.9
8	034	068	102	136	169	203	236	269	302	334	367	398	430	461	492	8
7	034	069	103	138	172	206	240	273	306	340	372	405	437	468	499	7
6	035	070	105	140	174	209	243	277	311	345	378	411	443	476	507	6
5	036	071	106	142	177	212	247	281	316	350	384	417	450	483	515	5
4	036	072	108	144	180	215	250	286	320	355	390	423	457	490	523	4
3	037	073	110	146	182	218	254	290	325	360	395	430	464	497	531	3
2	037	074	111	148	185	221	258	294	330	366	401	436	470	505	538	2
1	038	075	113	150	187	225	261	298	335	371	407	442	477	512	546	1
— 5.0	038	076	114	152	190	228	265	302	339	376	412	448	484	519	554	— 5.0
— 4.9	0039	0077	0116	0154	0193	0231	0269	0306	0344	0381	0418	0455	0491	0527	0562	— 4.9
8	039	078	117	156	195	234	272	311	349	386	424	461	498	534	570	8
7	040	079	119	158	198	237	276	315	353	392	430	467	504	541	578	7
6	040	080	120	161	200	240	280	319	358	397	435	473	511	548	585	6
5	041	081	122	163	203	243	283	323	363	402	441	480	518	556	593	5
4	041	082	124	165	206	246	287	327	367	407	447	486	525	563	601	4
3	042	084	125	167	208	250	291	331	372	412	452	492	531	570	609	3
2	042	084	127	169	211	253	294	336	377	418	458	498	538	578	617	2
1	043	086	128	171	214	256	298	340	382	423	464	505	545	585	624	1
— 4.0	043	087	130	173	216	259	302	344	386	428	470	511	552	592	632	— 4.0
— 3.9	0044	0088	0131	0175	0219	0262	0305	0348	0391	0433	0476	0517	0559	0600	0640	— 3.9
8	044	089	133	177	221	265	309	352	396	439	481	524	565	607	648	8
7	045	090	134	179	224	268	312	356	400	444	487	530	572	614	656	7
6	045	091	136	181	227	272	316	361	405	449	493	536	579	621	663	6
5	046	092	138	184	229	275	320	365	410	454	498	542	586	629	671	5
4	046	093	139	186	232	278	323	369	414	459	504	548	592	636	679	4
3	047	094	141	188	234	281	327	373	419	465	510	555	599	643	687	3
2	048	095	142	190	237	284	331	377	424	470	516	561	606	651	695	2
1	048	096	144	192	240	287	334	382	428	475	521	567	613	658	703	1
— 3.0	049	097	146	194	242	290	338	386	433	480	527	574	620	665	710	— 3.0



TABLE IX. *continued.*—For  $D = -21^\circ$ .**Y Negative.** $\xi = X - \frac{1}{20} X - \frac{1}{100} X$  — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
— 2.9	0049	0098	0147	0196	0245	0293	0342	0390	0438	0486	0533	0580	0626	0672	0718	— 2.9
8	050	099	149	198	247	296	345	394	442	491	538	586	633	680	726	8
7	050	100	150	200	250	300	349	398	447	496	544	592	640	687	734	7
6	051	101	152	202	253	303	353	402	452	501	550	599	647	694	742	6
5	051	102	153	204	255	306	356	407	457	506	556	605	654	702	750	5
4	052	103	155	206	258	309	360	411	461	512	562	611	660	709	757	4
3	052	104	156	208	260	312	364	415	466	517	567	617	667	716	765	3
2	053	105	158	211	263	315	367	419	471	522	573	624	674	724	773	2
1	053	106	160	213	266	318	371	423	475	527	579	630	680	731	781	1
— 2.0	054	107	161	215	268	322	374	427	480	532	584	636	687	738	789	— 2.0
— 1.9	0054	0108	0163	0217	0271	0325	0378	0432	0485	0538	0590	0642	0694	0746	0796	— 1.9
8	055	110	164	219	274	328	382	436	490	543	596	649	701	753	804	8
7	055	111	166	221	276	331	386	440	494	548	602	655	708	760	812	7
6	056	112	167	223	279	334	389	444	499	553	607	661	714	767	820	6
5	056	113	169	225	281	337	393	448	504	558	613	667	721	775	828	5
4	057	114	170	227	284	340	396	452	508	564	619	674	728	782	836	4
3	057	115	172	229	286	343	400	457	513	569	624	680	735	789	843	3
2	058	116	174	232	289	346	404	461	518	574	630	686	742	797	851	2
1	058	117	175	234	292	350	407	465	522	579	636	692	748	804	859	1
— 1.0	059	118	177	236	294	353	411	469	527	584	642	699	755	811	867	— 1.0
— 0.9	0060	0119	0178	0238	0297	0356	0415	0473	0532	0590	0647	0705	0762	0818	0874	— 0.9
8	060	120	180	240	300	359	418	477	536	595	653	711	769	826	882	8
7	061	121	182	242	302	362	422	482	541	600	659	717	776	833	890	7
6	061	122	183	244	305	365	426	486	546	605	665	724	782	840	898	6
5	062	123	185	246	307	368	429	490	550	611	670	730	789	848	906	5
4	062	124	186	248	310	372	433	494	555	616	676	736	796	855	914	4
3	063	125	188	250	313	375	436	498	560	621	682	742	802	862	922	3
2	063	126	189	252	315	378	440	502	564	626	688	749	809	870	929	2
1	064	127	191	254	318	381	444	507	569	631	693	755	816	877	937	1
— 0.0	0064	0128	0192	0256	0320	0384	0448	0511	0574	0637	0699	0761	0823	0884	0945	— 0.0







TABLE X. *continued.*—For  $D = -21^\circ$ .

Y Positive.

 $\xi = X - \frac{1}{15} X$  — following table.

X. Y	1.	2	3	4.	5.	6.	7.	8	9	10	11	12.	13	14.	15.	X. Y.
+ 5.0	0024	0047	0071	0094	0117	0140	0163	0186	0208	0231	0252	0274	0295	0316	0336	+ 5.0
1	024	048	072	096	120	144	167	190	213	236	258	280	302	323	344	1
2	025	049	074	098	123	147	170	194	218	241	264	286	309	330	352	2
3	025	050	075	100	125	150	174	198	222	246	270	293	315	338	359	3
4	026	051	077	102	128	153	178	203	227	251	275	299	322	345	367	4
5	026	052	078	104	130	156	181	207	232	257	281	305	329	352	375	5
6	027	053	080	106	133	159	185	211	236	262	287	311	336	359	383	6
7	027	054	082	109	136	162	189	215	241	267	292	318	342	367	391	7
8	028	055	083	111	138	165	192	219	246	272	298	324	349	374	399	8
+ 5.9	028	056	085	113	141	169	196	223	251	278	304	330	356	381	406	+ 5.9
+ 6.0	0029	0057	0086	0115	0143	0172	0200	0228	0255	0283	0310	0336	0363	0389	0414	+ 6.0
1	029	058	088	117	146	175	203	232	260	288	316	343	370	396	422	1
2	030	060	089	119	149	178	207	236	265	293	321	349	376	403	430	2
3	030	061	091	121	151	181	211	240	269	298	327	355	383	410	438	3
4	031	062	092	123	154	184	214	244	274	304	333	362	390	418	445	4
5	031	063	094	125	156	187	218	248	279	309	338	368	397	425	453	5
6	032	064	096	127	159	190	222	253	284	314	344	374	404	432	461	6
7	032	065	097	130	162	194	225	257	288	319	350	380	410	440	469	7
8	033	066	099	132	164	197	229	261	293	324	356	386	417	447	477	8
+ 6.9	033	067	100	134	167	200	232	265	298	330	361	393	424	454	485	+ 6.9
+ 7.0	0034	0068	0102	0136	0169	0203	0236	0269	0302	0335	0367	0399	0431	0462	0492	+ 7.0
1	034	069	103	138	172	206	240	273	307	340	373	405	437	469	500	1
2	035	070	105	140	175	209	244	278	312	345	379	412	444	476	508	2
3	036	071	106	142	177	212	247	282	316	350	384	418	451	484	516	3
4	036	072	108	144	180	215	251	286	321	356	390	424	458	491	524	4
5	037	073	110	146	182	219	254	290	326	361	396	430	464	498	532	5
6	037	074	111	148	185	222	258	294	330	366	402	437	471	506	539	6
7	038	075	113	150	188	225	262	298	335	371	407	443	478	513	547	7
8	038	076	114	152	190	228	265	303	340	376	413	449	485	520	555	8
+ 7.9	039	077	116	154	193	231	269	307	344	382	419	455	492	527	563	+ 7.9
+ 8.0	0039	0078	0118	0157	0196	0234	0273	0311	0349	0387	0424	0462	0498	0535	0570	+ 8.0
1	040	079	119	159	198	237	276	315	354	392	430	468	505	542	578	1
2	040	080	121	161	201	240	280	319	358	397	436	474	512	549	586	2
3	041	081	122	163	203	244	284	324	363	403	442	480	519	557	594	3
4	041	082	124	165	206	247	287	328	368	408	447	487	525	564	602	4
5	042	084	125	167	209	250	291	332	373	413	453	493	532	571	610	5
6	042	085	127	169	211	253	294	336	377	418	459	499	539	578	617	6
7	043	086	128	171	214	256	298	340	382	423	465	505	546	586	625	7
8	043	087	130	173	216	259	302	344	387	429	470	512	552	593	633	8
+ 8.9	044	088	132	175	219	262	306	348	391	434	476	518	559	600	641	+ 8.9
+ 9.0	0044	0089	0133	0177	0222	0266	0309	0353	0396	0439	0482	0524	0566	0608	0649	+ 9.0
1	045	090	135	180	224	269	313	357	401	444	488	530	573	615	657	1
2	045	091	136	182	227	272	316	361	405	450	493	537	580	622	664	2
3	046	092	138	184	229	275	320	365	410	455	499	543	586	630	672	3
4	046	093	139	186	232	278	324	369	415	460	505	549	593	637	680	4
5	047	094	141	188	235	281	327	374	420	465	510	555	600	644	688	5
6	048	095	142	190	237	284	331	378	424	470	516	562	607	651	696	6
7	048	096	144	192	240	287	335	382	429	476	522	568	614	659	704	7
8	049	097	146	194	242	291	338	386	434	481	528	574	620	666	711	8
+ 9.9	049	098	147	196	245	294	342	390	438	486	533	580	627	673	719	+ 9.9







TABLE XI.—For  $D = -21^\circ$ . $\eta$  Negative. $X = \xi + \frac{1}{16}\xi + \text{following table.}$ 

$\xi.$ $\eta.$	1	2.	3.	4.	5.	6.	7	8	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
-13.0	0009	0018	0028	0036	0045	0054	0062	0070	0077	0084	0090	0096	0102	-13.0
-12.9	0010	0020	0029	0039	0048	0057	0066	0074	0082	0090	0097	0103	0109	-12.9
8	010	021	031	041	051	061	070	079	088	096	103	110	117	8
7	011	022	033	044	054	064	074	084	093	102	110	117	124	7
6	012	023	035	046	057	068	078	089	098	108	116	124	132	6
5	012	024	036	048	060	071	082	093	104	114	123	132	140	5
4	013	026	038	051	063	075	087	098	109	119	129	139	147	4
3	013	027	040	053	066	078	091	103	114	125	136	146	155	3
2	014	028	042	055	069	082	095	107	120	131	142	153	163	2
1	015	029	044	058	072	086	099	112	125	137	149	160	170	1
-12.0	015	030	045	060	075	089	103	117	130	143	155	167	178	-12.0
-11.9	0016	0031	0047	0062	0078	0093	0107	0122	0135	0149	0162	0174	0186	-11.9
8	016	033	049	065	081	096	111	126	141	155	168	181	193	8
7	017	034	051	067	084	100	116	131	146	161	175	188	201	7
6	018	035	052	070	086	103	120	136	151	167	181	195	209	6
5	018	036	054	072	089	107	124	140	157	172	188	202	216	5
4	019	037	056	074	092	110	128	145	162	178	194	210	224	4
3	019	038	058	077	095	114	132	150	167	184	201	217	232	3
2	020	040	060	079	098	117	136	155	173	190	207	224	240	2
1	020	041	061	081	101	121	140	159	178	196	214	231	247	1
-11.0	021	042	063	084	104	124	144	164	183	202	220	238	255	-11.0
-10.9	0022	0043	0065	0086	0107	0128	0149	0169	0189	0208	0227	0245	0263	-10.9
8	022	044	066	088	110	132	153	174	194	214	233	252	270	8
7	023	046	068	091	113	135	157	178	199	220	240	259	278	7
6	023	047	070	093	116	139	161	183	205	226	246	266	286	6
5	024	048	072	096	119	142	165	188	210	232	253	273	293	5
4	025	049	074	098	122	146	169	192	215	238	259	280	301	4
3	025	050	075	100	125	149	173	197	220	243	266	288	309	3
2	026	052	077	103	128	153	178	202	226	249	272	295	316	2
1	026	053	079	105	131	156	182	207	231	255	279	302	324	1
-10.0	027	054	081	107	134	160	186	211	236	261	285	309	332	-10.0
-9.9	0028	0055	0082	0110	0137	0164	0190	0216	0242	0267	0292	0316	0339	-9.9
8	028	056	084	112	140	167	194	221	247	273	298	323	347	8
7	029	057	086	114	143	171	198	226	252	279	305	330	355	7
6	029	059	088	117	146	174	202	230	258	285	311	337	362	6
5	030	060	090	119	149	178	207	235	263	291	318	344	370	5
4	030	061	091	122	152	181	211	240	268	297	324	351	378	4
3	031	062	093	124	154	185	215	245	274	303	331	358	386	3
2	032	063	095	126	157	188	219	249	279	308	337	366	393	2
1	032	064	097	129	160	192	223	254	284	314	344	373	401	1
-9.0	033	066	098	131	163	196	227	259	290	320	350	380	409	-9.0
-8.9	0034	0067	0100	0133	0166	0199	0231	0264	0295	0326	0357	0387	0416	-8.9
8	034	068	102	136	169	203	236	268	300	332	363	394	424	8
7	035	069	104	138	172	206	240	273	306	338	370	401	432	7
6	035	070	106	140	175	210	244	278	311	344	376	408	440	6
5	036	072	107	143	178	213	248	282	316	350	383	415	447	5
4	036	073	109	145	181	217	252	287	322	356	389	422	455	4
3	037	074	111	148	184	220	256	292	327	362	396	430	463	3
2	038	075	113	150	187	224	260	297	332	368	402	437	470	2
1	038	076	114	152	190	228	265	301	338	374	409	444	478	1
-8.0	039	078	116	155	193	231	269	306	343	380	415	451	486	-8.0







TABLE XI. *continued.*—For  $D = -21^\circ$ . $\eta$  Negative. $X = \xi + \frac{1}{16}\xi + \text{following table.}$ 

$\xi.$ $\eta.$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi.$ $\eta.$
— 2.9	0069	0138	0207	0276	0345	0413	0481	0549	0616	0683	0749	0815	0880	— 2.9
8	070	139	209	278	348	416	485	553	621	689	756	822	888	8
7	070	141	211	281	351	420	489	558	627	695	762	829	895	7
6	071	142	213	283	354	424	493	563	632	701	769	836	903	6
5	072	143	214	286	356	427	498	568	637	707	775	843	911	5
4	072	144	216	288	359	431	502	573	643	713	782	850	919	4
3	073	145	218	290	362	434	506	577	648	718	788	858	926	3
2	073	146	220	293	365	438	510	582	654	724	795	865	934	2
1	074	148	222	295	368	442	514	587	659	730	802	872	942	1
— 2.0	074	149	223	297	371	445	518	592	664	736	808	879	950	— 2.0
— 1.9	0075	0150	0225	0300	0374	0449	0523	0596	0670	0742	0815	0886	0957	— 1.9
8	076	151	227	302	377	452	527	601	675	748	821	894	965	8
7	076	152	229	305	380	456	531	606	680	754	828	901	973	7
6	077	154	230	307	383	459	535	611	686	760	834	908	981	6
5	078	155	232	309	386	463	539	615	691	766	841	915	988	5
4	078	156	234	312	389	467	544	620	696	772	847	922	0996	4
3	079	157	236	314	392	470	548	625	702	778	854	929	1004	3
2	079	158	238	316	395	474	552	630	707	784	861	936	012	2
1	080	160	239	319	398	477	556	635	713	790	867	944	019	1
— 1.0	080	161	241	321	401	481	560	639	718	796	874	951	027	— 1.0
— 0.9	0081	0162	0243	0324	0404	0484	0564	0644	0723	0802	0880	0958	1035	— 0.9
8	082	163	245	326	407	488	569	649	729	808	887	965	043	8
7	082	164	247	328	410	492	573	654	734	814	894	972	050	7
6	083	166	248	331	413	495	577	658	739	820	900	979	058	6
5	084	167	250	333	416	499	581	663	745	826	907	987	066	5
4	084	168	252	336	419	502	585	668	750	832	913	0994	074	4
3	085	169	254	338	422	506	590	673	756	838	920	1001	082	3
2	085	170	256	340	425	510	594	678	761	844	926	008	089	2
1	086	172	257	343	428	513	598	682	766	850	933	015	097	1
— 0.0	086	173	0259	0345	0431	0517	0602	0687	0772	0856	0939	1022	1105	— 0.0







TABLE XII. *continued.*—For  $D = -21^\circ$ . $\eta$  Positive. $X = \xi + \frac{1}{14} \xi + \text{following table.}$ 

$\xi$ $\eta$	1	2.	3.	4	5.	6.	7.	8.	9	10.	11.	12.	13
+ 5.0	.0027	.0054	.0081	.0108	.0135	.0161	.0187	.0213	.0238	.0263	.0287	.0311	.033
1	028	055	083	110	138	165	191	218	243	269	294	318	34
2	028	057	085	113	141	168	195	222	249	275	300	325	34
3	029	058	087	115	144	172	200	227	254	281	307	332	35
4	030	059	088	118	147	175	204	232	260	287	313	340	36
5	030	060	090	120	150	179	208	237	265	293	320	347	37
6	031	061	092	122	153	183	212	242	270	299	327	354	38
7	031	063	094	125	156	186	216	244	276	305	333	361	38
8	032	064	096	127	159	190	221	251	281	311	340	368	39
+ 5.9	033	065	098	130	162	194	225	256	287	317	347	376	40
+ 6.0	.0033	.0066	.0099	.0132	.0165	.0197	.0229	.0261	.0292	.0323	.0353	.0383	.041
1	034	067	101	134	168	201	233	266	298	329	360	390	42
2	034	069	103	137	171	204	238	270	303	335	366	397	42
3	035	070	105	139	174	208	242	275	308	341	373	405	42
4	036	071	106	142	177	212	246	280	314	347	380	412	42
5	036	072	108	144	180	215	250	285	319	353	386	419	42
6	037	074	110	146	183	219	254	290	325	359	393	426	42
7	037	075	112	149	186	222	259	294	330	365	400	434	42
8	038	076	114	151	189	226	263	299	335	371	406	441	42
+ 6.9	039	077	116	154	192	230	267	304	341	377	413	448	42
+ 7.0	.0039	.0078	.0117	.0156	.0195	.0233	.0271	.0309	.0346	.0383	.0420	.0455	.049
1	040	080	119	159	198	237	276	314	352	389	426	462	49
2	040	081	121	161	201	240	280	319	357	395	433	470	49
3	041	082	123	163	204	244	284	323	363	401	439	477	50
4	042	083	125	166	207	248	288	328	368	407	446	484	50
5	042	084	126	168	210	251	292	333	374	413	453	491	50
6	043	086	128	171	213	255	297	338	379	419	459	499	50
7	043	087	130	173	216	259	301	343	384	425	466	506	50
8	044	088	132	175	219	262	305	348	390	431	472	513	50
+ 7.9	045	089	134	178	222	266	309	352	395	437	479	520	50
+ 8.0	.0045	.0090	.0136	.0180	.0225	.0269	.0314	.0357	.0401	.0444	.0486	.0528	.057
1	046	092	137	183	228	273	318	362	406	450	492	535	57
2	046	093	139	185	231	277	322	367	412	456	499	542	57
3	047	094	141	188	234	280	326	372	417	462	506	549	57
4	048	095	143	190	237	284	330	376	422	468	512	557	57
5	048	096	144	192	240	288	335	381	428	474	519	564	57
6	049	098	146	195	243	291	339	386	433	480	526	571	57
7	049	099	148	197	246	295	343	391	439	486	532	578	57
8	050	100	150	200	249	298	347	396	444	492	539	586	57
+ 8.9	051	101	152	202	252	302	352	401	450	498	546	593	57
+ 9.0	.0051	.0102	.0154	.0204	.0255	.0306	.0356	.0406	.0455	.0504	.0552	.0600	.06
1	052	104	155	207	258	309	360	410	460	510	559	607	6
2	052	105	157	209	261	313	364	415	466	516	566	614	6
3	053	106	159	212	264	316	368	420	471	522	572	622	6
4	054	107	161	214	267	320	373	425	477	528	579	629	6
5	054	108	163	216	270	324	377	430	482	534	586	636	6
6	055	110	164	219	273	327	381	434	488	540	592	644	6
7	056	111	166	221	276	331	385	439	493	546	599	651	7
8	056	112	168	224	279	335	390	444	498	552	605	658	7
+ 9.9	057	113	170	226	282	338	394	449	504	558	612	665	7



TABLE XII. *continued.*—For  $D = -21^\circ$ . $\eta$  Positive. $X = \xi + \frac{1}{14}\xi + \text{following table.}$ 

$\xi.$ $\eta.$	1	2.	3.	4.	5.	6.	7	8.	9	10	11	12.	13	$\xi.$ $\eta$
+10.0	.0057	.0114	.0172	.0229	.0285	.0342	.0398	.0454	.0509	.0564	.0619	.0673	.0726	+10.0
1	058	116	174	231	288	346	402	459	515	570	625	680	734	1
2	058	117	175	233	291	349	407	464	520	576	632	687	742	2
3	059	118	177	236	294	353	411	468	526	582	639	694	749	3
4	060	119	179	238	297	356	415	473	531	588	645	702	757	4
5	060	120	181	241	300	360	419	478	537	594	652	709	765	5
6	061	122	183	243	303	364	424	483	542	601	659	716	773	6
7	062	123	184	246	306	367	428	488	548	607	665	723	781	7
8	062	124	186	248	310	371	432	493	553	613	672	731	789	8
+10.9	063	125	188	250	313	375	436	498	558	619	679	738	797	+10.9
+11.0	.0063	.0127	.0190	.0253	.0316	.0378	.0440	.0502	.0564	.0625	.0685	.0745	.0804	+11.0
1	064	128	192	255	319	382	445	507	569	631	692	752	812	1
2	065	129	194	258	322	386	449	512	575	637	699	760	820	2
3	065	130	195	260	325	389	453	517	580	643	705	767	828	3
4	066	131	197	262	328	393	457	522	586	649	712	774	836	4
5	066	133	199	265	331	396	462	526	591	655	719	782	844	5
6	067	134	201	267	334	400	466	531	596	661	725	789	852	6
7	068	135	203	270	337	404	470	536	602	667	732	796	860	7
8	068	136	204	272	340	407	474	541	607	673	739	803	868	8
+11.9	069	138	206	275	343	411	479	546	613	679	745	811	875	+11.9
+12.0	.0069	.0139	.0208	.0277	.0346	.0415	.0483	.0551	.0618	.0685	.0752	.0818	.0883	+12.0
1	070	140	210	279	349	418	487	556	624	691	758	825	891	1
2	071	141	212	282	352	422	491	560	629	698	765	832	899	2
3	071	142	214	284	355	426	496	565	635	704	772	840	907	3
4	072	144	215	287	358	429	500	570	640	710	778	847	915	4
5	072	145	217	289	361	433	504	575	646	716	785	854	923	5
6	073	146	219	292	364	436	508	580	651	722	792	862	930	6
7	074	147	221	294	367	440	512	585	656	728	798	869	938	7
8	074	148	223	296	370	444	517	590	662	734	805	876	946	8
+12.9	075	150	224	299	373	447	521	594	667	740	812	883	954	+12.9
+13.0	.0076	.0151	.0226	.0301	.0376	.0451	.0525	.0599	.0673	.0746	.0819	.0891	.0962	+13.0







# HYDERABAD ASTROGRAPHIC CATALOGUE

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## T A B L E S

FOR THE CONVERSION OF

MEASURED DIAMETERS OF THE STAR-IMAGES

IN

ZONE — 21°

INTO

STELLAR PHOTOGRAPHIC MAGNITUDES BY  
MEANS OF THE FORMULA

$$m = a - 1.05 \sqrt{d}$$



Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m = a - 1.05\sqrt{d}$ . $a = 15.1$  to  $16.4$ .

$a \backslash d$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$a \backslash d$
8	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	8
9	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	9
10	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	10
11	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	11
12	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12
13	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	13
14	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	14
15	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	15
16	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	16
17	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	17
18	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	18
19	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	19
20	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	20
21	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	21
22	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	22
23	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	23
24	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	24
25	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	25
26	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	26
27	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	27
28	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	28
29	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	29
30	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	30
31	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	31
32	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	32
33	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	33
34	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	34
35	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	35
36	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	36
37	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	37
38	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	38
39	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	39
40	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	40
41	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	41
42	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	42
43	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	43
44	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	44
45	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	45
46	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	46
47	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	47
48	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	48
49	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	49
50	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	50
55	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	55
60	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	60
65	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	65
70	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	70
75	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	75
80	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	80
85	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	85
90	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	90
95	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	95
100	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	100
110	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	110
120	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	120
130	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	130
$d \backslash a$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	$d \backslash a$



Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m=a-1.05\sqrt{d}$ . $a=16.5$  to  $17.8$ .

$\begin{smallmatrix} a \\ d \end{smallmatrix}$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$\begin{smallmatrix} a \\ d \end{smallmatrix}$
8	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	8
9	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	9
10	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	10
11	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	11
12	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	12
13	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13
14	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14
15	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	15
16	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	16
17	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	17
18	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	18
19	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	19
20	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	20
21	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	21
22	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	22
23	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	23
24	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	24
25	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	25
26	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	26
27	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	27
28	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	28
29	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	29
30	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	30
31	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	31
32	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	32
33	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	33
34	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	34
35	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	35
36	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	36
37	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	37
38	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	38
39	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	39
40	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	40
41	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	41
42	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	42
43	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	43
44	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	44
45	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	45
46	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	46
47	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	47
48	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	48
49	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	49
50	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	50
55	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	55
60	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	60
65	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	65
70	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	70
75	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	75
80	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	80
85	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	85
90	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	90
95	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	95
100	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	100
110	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	110
120	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	120
130	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	130
$\begin{smallmatrix} d \\ a \end{smallmatrix}$	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	$\begin{smallmatrix} d \\ a \end{smallmatrix}$







HYDERABAD ASTROGRAPHIC CATALOGUE, 1900  
ZONE  $-21^{\circ}$

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MEASURES OF RECTANGULAR CO-ORDINATES AND  
DIAMETERS OF STAR-IMAGES

ON PHOTOGRAPHS TAKEN AT THE NIZAMIAH OBSERVATORY,  
HYDERABAD



## EXPLANATION OF THE COLUMNS.

The heading of each plate gives the approximate R.A. of the centre, the number of the plate in the Hyderabad series, the date of exposure, the provisional constants by means of which the measures may be converted into standard co-ordinates (see Introduction, Sections VII., VIII.), and the formula connecting magnitude and diameter (see Introduction, Section V.).

The first column gives a reference number which is purely arbitrary ; in order to designate a star it is only necessary to state the zone and the number, thus,  $-21^{\circ}$ , 8201 ; neither the plate number nor the R.A. of the plate centre need be stated. Since a gap is always left between the last number of any plate and the first number of the next following plate, there are many numbers which are not allotted to stars ; thus there is no star  $-21^{\circ}$ , 8180.

An asterisk attached to the number in this column indicates that the star is amongst those stars selected from the Algiers Astronomische Gesellschaft Catalogue, the standard co-ordinates of which are given on pages 261–290 of this volume.

The second column gives the measured diameter, estimated in units of  $0''.15$ , these diameters may be converted into magnitudes by means of the formula printed at the head of each plate.

The third and fourth columns give the measured co-ordinates of the stars, denoted by  $x$ ,  $y$ , the directions of the co-ordinate axes being approximately those of increasing R.A. and S. Declination, and the origin being the corner of the réseau : the plate centre is approximately at the point (18, 18).

The stars are arranged in the order of the value of the  $x$  co-ordinate for each zone of one unit of  $y$  (approximately  $5'$ ). Each printed measure is the mean of at least two independent bisections of the star-image made in positions of the plate with orientations differing by  $180^{\circ}$ .



R.A. 0 <sup>h</sup> 4 <sup>m</sup>				R.A. 0 <sup>h</sup> 12 <sup>m</sup>			
Plate 1762; 1920 Dec. 8.				Plate 1709; 1920 Oct. 16.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-01737	+00655	-2285		-01747	+00481	+0268	
D	E	F		D	E	F	
-00665	-01770	-1482		-00470	-01743	-0550	
Mag. = 16.4 - 1.05√d				Mag. = 17.0 - 1.05√d			
No.	d	x	y	No.	d	x	y
1*	38	0.054	0.817	201	11	3.898	0.960
2*	48	0.818	0.501	202	37	8.609	0.850
3	22	13.281	0.117	203*	58	10.854	0.316
4	36	17.968	0.218	204	10	11.480	0.346
5	18	18.956	0.898	205	9	21.672	0.896
6	19	19.070	0.792	206	15	21.953	0.429
7	24	21.284	0.606	207	13	23.252	0.284
8	23	12.808	1.422	208	11	5.980	1.351
9	12	15.592	1.210	209	10	13.016	1.426
10	17	20.150	1.207	210	45	14.948	1.582
11	31	7.050	2.072	211	14	15.928	1.640
12	30	14.128	2.999	212	19	15.985	1.566
13	21	19.638	2.796	213	18	21.687	1.361
14	23	21.259	2.202	214	34	2.646	2.356
15	13	21.358	2.284	215	27	5.443	2.616
16	23	24.542	2.122	216	14	12.506	2.336
17	13	0.776	3.792	217	11	14.070	2.614
18	19	1.606	3.514	218	26	14.990	2.958
19*	44	3.322	3.469	219	34	18.440	2.094
20	10	5.792	3.240	220	21	3.180	3.516
21	24	10.002	3.409	221	13	6.348	3.622
22	11	14.394	3.758	222	9	15.265	3.778
23	19	16.890	3.154	223	22	15.293	3.809
24*	43	20.162	3.775	224	14	17.428	3.490
25	27	1.744	4.754				
26	15	22.498	4.924				
27	21	1.208	5.801				
28	33	1.550	5.411				
29	31	2.307	5.448				
30	30	5.838	5.598				
31	10	15.507	5.139				
32	19	24.028	5.332				
33	32	5.802	6.128				
34*	40	6.364	6.352				
35	22	12.798	6.292				
36	10	15.452	6.686				
37	12	17.914	6.055				
38	12	25.950	6.988				
39	25	2.828	7.520				
40	29	8.782	7.510				
41	22	13.674	7.800				
42*	45	15.566	7.100				
43	13	16.160	7.851				
44	19	17.966	7.357				
45	18	24.662	7.598				
46	29	24.685	7.108				
47	31	2.058	8.152				
48	15	3.289	8.220				
49	39	5.182	8.052				
50	17	12.224	8.922				
51	24	15.060	8.660				
52	16	15.548	8.034				
53	11	22.505	8.812				
54	14	25.852	8.670				
55	31	2.275	9.968				



369	32	23.532	23.355	438	36	20.300	3.520	510	16	2.715	12.792	582	10	4.356	21.576	669	10	22.146	4.292
370	12	0.650	24.011	439	24	1.718	4.580	511	12	3.997	12.094	583	10	4.560	21.665	670	9	22.424	4.056
371	21	8.860	24.982	440	12	5.834	4.130	512	12	11.220	12.620	584	25	9.798	21.446	671	37	0.422	5.892
372	10	9.367	24.010	441	21	0.193	4.364	513	33	14.446	12.440	585	24	22.816	21.560	672	22	2.974	5.184
373	20	15.748	24.862	442	18	15.020	4.867	514	25	18.750	12.530	586	12	24.908	21.350	673	23	4.782	5.944
374	22	16.222	24.019	443	10	16.534	4.225	515	11	25.920	12.162	587	12	1.296	22.380	674*	44	5.395	5.648
375	20	18.604	24.557	444	13	17.545	4.876	516	12	0.674	13.485	588	35	2.638	22.440	675*	44	11.942	5.074
376	13	7.562	25.580	445	14	19.786	4.534	517	14	2.180	13.464	589	31	3.064	22.468	676	12	12.763	5.768
377	26	11.113	25.358	446	13	4.750	5.865	518	12	3.010	13.843	590	17	9.722	22.518	677	24	13.120	5.901
378	48	11.709	25.699	447	20	9.150	5.598	519	12	6.711	13.960	591	11	9.762	22.599	678	9	4.660	6.502
379	15	25.555	25.473	448*	42	12.015	5.760	520	13	9.394	13.716	592	12	10.710	22.970	679	9	15.732	6.226
<div>R.A. 0<sup>h</sup> 20<sup>m</sup></div> <div>Plate 1746 ; 1920 Dec. 4.</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>-01750 +00842 -0632</div> <div>D            E            F</div> <div>-00822 -01725 +1024</div> <div>Mag.=16.7-1.05√d</div>				449*	40	16.908	5.306	521	11	13.960	13.880	593	13	12.854	22.430	680	11	18.698	6.704
				450	40	22.538	5.845	522	11	14.639	13.876	594	32	15.416	22.452	681	11	20.578	6.194
				451	24	25.097	5.177	523	20	15.930	13.519	595	21	16.216	22.728	682	27	25.758	6.194
				452*	62	1.210	6.831	524	22	16.075	13.292	596*	40	21.244	22.718	683	12	13.845	7.535
				453	38	9.850	6.440	525*	49	18.440	13.520	597	29	1.639	23.613	684	26	17.122	7.215
				454	18	11.610	6.785	526	20	10.175	14.676	598	12	7.658	23.265	685	18	25.060	7.214
				455*	60	12.478	6.852	527	25	12.589	14.066	599	12	8.096	23.272	686	13	2.480	8.364
				456	13	13.180	6.560	528	22	14.194	14.620	600	31	12.894	23.631	687	26	6.909	8.096
				457	10	14.050	6.651	529	16	15.334	14.766	601	13	3.023	24.472	688	8	20.024	8.748
				458*	75	14.350	6.711	530	19	16.090	14.990	602	28	6.157	24.444	689	9	21.732	8.775
459	14	15.700	6.995	531	29	19.340	14.560	603	16	8.458	24.725	690	11	0.256	9.236				
460	20	17.288	6.636	532	14	20.318	14.029	604	14	14.587	24.901	691	21	5.209	9.874				
461	19	17.922	6.077	533	24	25.625	14.283	605	12	14.770	24.954	692	22	9.742	9.904				
462	10	18.371	6.545	534	42	7.074	15.310	606	16	15.870	24.374	693	12	20.700	9.724				
463	11	7.575	7.760	535*	40	8.483	15.775	607	13	3.699	25.696	694	20	22.429	9.516				
464	21	9.435	7.665	536	12	15.807	15.692	608	25	4.858	25.896	695	22	8.814	10.682				
465	10	9.841	7.024	537	19	17.440	15.790	609	38	7.585	25.731	696	31	24.215	10.272				
466	16	14.580	7.284	538*	66	17.932	15.314	610	53	16.088	25.752	697	13	6.060	11.614				
467	40	16.991	7.395	539	17	18.300	15.824	611	39	18.388	25.771	698	34	8.060	11.685				
468	40	20.394	7.085	540	12	18.628	15.310	<div>R.A. 0<sup>h</sup> 28<sup>m</sup></div> <div>Plate 1758 ; 1920 Dec. 7.</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>-01702 +01062 -0860</div> <div>D            E            F</div> <div>-01054 -01738 -0485</div> <div>Mag.=16.9-1.05√d</div>				699	16	17.156	11.568				
469*	82	3.704	8.299	541	12	18.642	15.399					700*	36	18.705	11.114				
470	14	5.050	8.379	542	34	21.978	15.055					701	20	25.180	12.696				
471	12	6.059	8.800	543	13	24.926	15.127					702	10	5.174	13.796				
472	31	9.280	8.390	544	13	25.640	15.913					703	21	12.622	13.576				
473	10	14.348	8.418	545	33	3.235	16.776					704	12	16.584	13.162				
474	24	16.055	8.386	546	20	8.725	16.097					705	11	17.215	13.737				
475	15	17.030	8.082	547	37	9.844	16.194					706	36	23.724	13.458				
476	19	17.613	8.982	548	17	10.718	16.326					707	21	3.632	14.284				
477	26	18.072	8.440	549	26	16.868	16.920					708	19	10.498	14.150				
478	17	18.075	8.132	550	28	20.360	16.300	709	10	14.024	14.800								
479	25	21.483	8.814	551	12	21.098	16.529	710	10	17.825	14.977								
480	18	24.558	8.348	552	12	22.796	16.440	711	15	20.702	14.796								
481	22	3.142	9.428	553	17	0.364	17.930	712	18	6.564	15.558								
482*	38	4.685	9.830	554	13	3.802	17.534	713	9	10.956	15.066								
483	13	7.335	9.134	555	29	9.070	17.339	714	10	13.634	15.744								
484	20	15.764	9.381	556	17	9.435	17.375	715	12	15.703	15.764								
485	20	18.400	9.166	557	24	12.922	17.493	716	13	17.159	15.975								
486*	107	19.934	9.048	558	21	14.425	17.198	717	21	7.585	16.374								
487	23	21.853	9.092	559	17	21.155	17.860	718	10	14.286	16.074								
488	17	22.320	9.187	560	24	21.184	17.820	719*	72	21.436	16.185								
489	12	22.394	9.145	561	16	25.350	17.506	720	12	3.406	17.510								
490	13	25.230	9.570	562	11	6.730	18.066	721	18	9.880	17.562								
491	19	5.565	10.788	563	12	13.242	18.160	722	36	13.900	17.428								
492	13	5.780	10.685	564	14	14.634	18.332	723	11	17.078	17.728								
493	24	7.262	10.764	565	11	15.439	18.795	724	14	17.270	17.916								
494	18	8.930	10.944	566	37	16.654	18.080	725	32	21.632	17.573								
495	11	9.300	10.068	567	35	21.225	18.023	726	11	22.486	17.018								
496	29	10.014	10.167	568	12	23.680	18.630	727	32	8.114	18.556								
497	17	10.688	10.669	569	18	1.875	19.350	728	17	10.996	18.556								
498	12	15.615	10.685	570	12	12.090	19.128	729	20	21.521	18.174								
499	12	16.198	10.108	571	20	16.528	19.564	730	28	3.252	19.996								
500	16	17.278	10.082	572	10	19.252	19.112	731	14	5.446	19.636								
501	10	2.977	11.239	573	10	23.139	19.558	732	11	5.625	19.037								
502	32	5.272	11.680	574	36	25.161	19.991	733	13	6.728	19.636								
503	12	6.925	11.874	575	11	7.826	20.560	734	8	19.446	19.185								
504	12	7.520	11.945	576	15	12.128	20.834	735	17	2.747	20.798								
505	34	8.268	11.194	577	17	21.860	20.855	736	20	8.406	20.322								
506	18	10.972	11.325	578	12	22.485	20.015	737	14	9.620	20.181								
507	18	18.131	11.115	579	17	24.641	20.786	738	10	14.691	20.444								
508	15	21.830	11.128	580	16	1.810	21.259	739	11	15.524	20.827								
509*	100	22.000	11.377	581	22	2.490	21.368	740	8	19.275	20.116								



741	34	22.539	20.156	825*	43	6.183	4.128	897	27	21.890	13.522	<b>R.A. 0<sup>h</sup> 44<sup>m</sup></b> Plate 1710 ; 1920 Oct. 16. <i>Provisional Constants.</i> A      B      C -01739 +00985 -1909 D      E      F -01013 -01767 +1860 Mag. = 16.3 - 1.05√d	1056	17	1.790	5.496
742	37	25.228	20.358	826	32	9.209	4.918	898	19	14.640	14.519		1057	23	3.357	5.048
743	25	25.822	20.227	827	19	22.657	4.284	899*	35	18.080	14.509		1058	10	12.112	5.444
744	17	0.934	21.600	828	19	5.020	5.595	900	14	21.194	14.556		1059	21	1.094	6.697
745	19	12.464	21.514	829*	38	8.016	5.510	901	16	22.451	14.785		1060	20	3.078	6.500
746	17	17.624	21.948	830	24	9.308	5.246	902	14	24.120	14.885		1061	11	3.734	6.970
747	21	18.434	21.196	831	17	13.243	5.460	903	20	5.620	15.288		1062	22	5.704	6.500
748	10	18.916	21.752	832	19	13.472	5.210	904	13	8.890	15.946		1063	28	13.536	6.310
749	18	23.372	21.956	833*	40	13.622	5.510	905	19	11.038	15.405		1064	39	14.800	6.672
750	9	4.238	22.204	834	15	15.270	5.702	906	15	20.945	15.290		1065	19	15.261	6.099
751	16	5.544	22.166	835	14	16.530	5.750	907	18	24.445	15.928	No.    d      x      y 1001    13    3.554    0.020 1002    44    6.262    0.817 1003    30    9.987    0.671 1004    27    11.131    0.518 1005    24    12.036    0.452 1006    37    15.198    0.402 1007    14    15.247    0.761 1008*    51    21.189    0.566 1009    24    23.900    0.399 1010    23    1.374    1.260 1011    14    2.414    1.082 1012    17    2.968    1.940 1013    13    6.094    1.746 1014    20    10.132    1.802 1015    12    13.811    1.048 1016    18    14.617    1.196 1017    10    16.342    1.526 1018    10    17.961    1.774 1019    34    22.554    1.072 1020    24    3.170    2.208 1021    20    3.243    2.350 1022    27    3.752    2.050 1023    13    8.690    2.948 1024    24    8.826    2.692 1025    18    8.964    2.578 1026    19    14.036    2.194 1027    34    15.226    2.690 1028    19    15.762    2.999 1029    11    16.460    2.123 1030    11    17.818    2.234 1031    13    1.330    3.540 1032    24    1.692    3.715 1033    30    7.920    3.942 1034    34    8.573    3.846 1035    19    10.507    3.610 1036    29    16.394    3.082 1037    22    16.466    3.361 1038    17    18.241    3.875 1039    23    18.748    3.980 1040    19    19.394    3.460 1041    18    21.800    3.650 1042    29    0.430    4.831 1043    32    1.102    4.366 1044    31    7.306    4.860 1045    20    10.152    4.698 1046*    40    12.650    4.026 1047    22    13.171    4.060 1048    11    14.088    4.100 1049    34    14.862    4.928 1050    20    15.115    4.360 1051    11    16.027    4.286 1052    21    16.632    4.817 1053    18    17.237    4.311 1054    10    20.516    4.899 1055    24    24.971    4.294	1066	40	17.246	6.274
752	19	9.737	22.044	836	20	18.093	5.698	908	20	4.274	16.048		1067	27	17.884	6.494
753	15	16.976	22.486	837	17	18.930	5.020	909	16	5.050	16.352		1068	15	20.156	6.531
754	10	7.506	23.706	838	23	3.642	6.178	910	13	16.957	16.636		1069*	50	22.534	6.132
755*	60	7.966	23.312	839	29	4.968	6.260	911	12	0.427	17.015		1070	40	23.214	6.412
756	19	10.847	23.095	840	14	17.424	6.027	912	14	4.800	17.188		1071	10	23.221	6.059
757	22	11.050	23.238	841	12	18.355	6.250	913	10	10.087	17.936		1072	17	4.730	7.222
758	29	14.656	23.236	842	16	18.546	6.527	914	40	25.565	17.832		1073	22	6.209	7.894
759*	72	21.724	23.728	843	14	23.286	6.162	915	11	5.048	18.085		1074*	47	6.370	7.037
760*	62	5.171	24.676	844	16	2.949	7.202	916	16	8.588	18.682		1075*	46	8.130	7.112
761	37	18.414	24.376	845	20	5.304	7.650	917	14	10.800	18.460		1076	22	13.952	7.873
762	15	19.140	24.322	846	23	5.832	7.846	918	12	10.981	18.368		1077	38	24.232	7.018
763	15	23.500	24.502	847	21	5.841	7.845	919*	30	11.262	18.851		1078	23	25.518	7.222
764	23	19.612	25.718	848	10	6.215	7.750	920	12	18.048	18.096		1079	19	4.785	8.008
<b>R.A. 0<sup>h</sup> 36<sup>m</sup></b> Plate 1756, 1920 Dec. 6. <i>Provisional Constants.</i> A      B      C -01745 +00292 -0487 D      E      F -00288 -01736 -2999 Mag. = 16.0 - 1.05√d				849	20	7.436	7.309	921	12	18.120	18.675		1080*	40	5.436	8.702
				850	12	10.455	7.712	922	20	22.675	18.048		1081	28	9.026	9.987
				851	10	6.071	8.034	923	10	23.525	18.489		1082	27	12.024	8.266
				852	19	6.408	8.940	924	12	4.432	19.899		1083	39	19.736	8.636
				853*	40	7.758	8.193	925*	42	6.663	19.434		1084	11	21.683	8.190
				854	20	16.280	8.881	926	18	16.812	19.510		1085	31	25.010	8.398
				855	24	17.778	8.480	927*	40	20.512	19.734		1086	34	25.519	8.390
				856	14	18.757	8.592	928*	29	20.952	19.850		1087	10	0.328	9.202
				857	20	0.330	9.516	929	12	24.612	19.842		1088	14	12.230	9.988
				858	13	3.730	9.483	930	24	0.494	20.156		1089	37	14.036	9.400
				859	10	8.437	9.577	931	26	3.184	20.345		1090	15	17.620	9.440
				860	13	9.950	9.190	932	20	3.778	20.210		1091	12	17.730	9.176
				861	15	13.927	9.488	933	14	9.259	20.764		1092	18	10.000	10.986
				862	60	17.440	9.394	934	14	12.035	20.598		1093	12	18.147	10.758
				863	21	20.912	9.054	935	16	15.276	20.632		1094	20	20.046	10.944
				864	24	2.118	10.262	936	14	20.290	20.570		1095	12	20.534	10.535
				865*	102	5.970	10.670	937	10	21.261	20.344		1096	33	21.020	10.474
				866	19	5.980	10.865	938	12	25.325	20.063		1097	36	24.624	10.772
				867*	45	14.173	10.656	939	16	1.339	21.950		1098	24	1.075	11.547
				868	17	17.745	10.972	940	10	4.971	21.190		1099	17	1.148	11.150
				869*	43	20.950	10.026	941*	38	5.268	21.260		1100*	52	1.392	11.602
				870	10	23.254	10.615	942	12	12.480	21.883		1101	18	1.404	11.323
				871	12	25.492	10.865	943	12	15.194	21.102		1102	12	2.806	11.613
				872	11	2.816	11.005	944	38	25.848	21.468		1103	18	3.170	11.659
				873	21	6.955	11.416	945	36	6.038	22.304		1104	23	3.393	11.356
				874	14	8.668	11.925	946*	40	7.457	22.226		1105	21	5.086	11.046
				875	11	8.865	11.107	947	24	8.722	22.885		1106	30	5.340	11.546
				876	10	9.117	11.214	948	12	9.740	22.118		1107	31	7.138	11.253
				877	12	14.292	11.727	949	20	17.555	22.416		1108	19	17.437	11.278
				878	24	16.786	11.937	950*	28	4.864	23.806		1109	21	0.357	12.360
				879*	42	17.361	11.275	951	20	6.276	23.072		1110	23	2.054	12.460
				880*	38	17.686	11.355	952	20	14.266	23.475		1111	13	9.006	12.351
				881*	40	20.827	11.820	953	14	19.560	23.378		1112	19	24.770	12.656
				882	13	22.439	11.806	954	12	23.136	23.280		1113	13	8.196	13.494
				883	12	23.174	11.010	955*	48	23.610	23.680		1114	38	12.292	13.978
				884*	45	23.494	11.070	956	13	1.480	24.498		1115	21	19.346	13.869
				885	13	24.134	11.942	957	10	3.490	24.085		1116	19	21.357	13.548
				886	19	3.096	12.683	958	12	17.866	24.695		1117	14	22.392	13.947
				887	19	4.736	12.517	959	20	25.844	24.748		1118	24	25.922	13.560
				888	12	5.648	12.550	960	12	4.580	25.930		1119	11	1.746	14.965
				889	16	6.992	12.892	961	17	4.596	25.990		1120	14	3.848	14.849</



1128	22	0 429	15.336	1200	23	25.566	21 942	1261	20	6.663	1.536	1333	11	8.376	9.588	1405	15	9.836	18.126
1129	20	2.098	15.400	1201	13	5.604	22.927	1262	14	15.226	1.280	1334	14	9.460	9.050	1406	14	13.074	18.789
1130	12	3 950	15.638	1202	26	10.918	22.710	1263	19	19.824	1.382	1335	25	13.393	9.396	1407	13	15.162	18.750
1131*	48	5 125	15.394	1203	24	12.769	22.524	1264	13	20.218	1.488	1336	18	15.152	9.246	1408	22	18.910	18.593
1132	21	12.702	15.035	1204	24	14.715	22.073	1265	21	23.185	1.450	1337	16	16.650	9.060	1409	12	19.349	18.712
1133	31	12.850	15.684	1205	12	20.629	22.102	1266	22	23.469	1.836	1338	13	20.722	9.845	1410	17	22.411	18.373
1134	11	17.118	15.813	1206	18	22.592	22.247	1267	14	25.412	1.512	1339	32	22.411	9.800	1411*	67	0.616	19.132
1135	15	22.627	15.654	1207	18	23.776	22.500	1268	16	10.260	2.908	1340	25	2.526	10.775	1412	11	3.202	19.140
1136	24	22.766	15.190	1208	12	25.753	22.777	1269	15	15.432	2.356	1341	40	10.746	10.511	1413	14	3.794	19.436
1137	12	0.965	16.780	1209	18	1.282	23.817	1270*	64	17.549	2.822	1342*	44	16.474	10.939	1414	12	10.646	19.042
1138	31	2.442	16.437	1210	28	4.210	23.058	1271	10	18.182	2.616	1343	22	19.176	10.530	1415	16	11.950	19.344
1139	24	5.679	16.473	1211*	40	5.454	23.718	1272	28	18.420	2.592	1344	20	21.818	10.649	1416	11	13.460	19.432
1140	18	7.216	16.869	1212	15	9.313	23.458	1273	11	18.457	2.030	1345*	60	21.983	10.368	1417	14	13.920	19.338
1141	13	9.096	16.750	1213	11	11.772	23.070	1274	14	19.126	2.542	1346	16	6.472	11.870	1418	31	19.785	19.746
1142	15	9.538	16.918	1214	38	13.772	23.921	1275	14	21.135	2.758	1347	37	10.320	11.575	1419*	44	21.434	19.636
1143	19	9.717	16.549	1215*	47	13.802	23.938	1276	31	5.037	3.424	1348	18	13.680	11.903	1420	16	3.074	20.370
1144	19	10.044	16.032	1216	24	16.542	23.142	1277	16	6.292	3.752	1349	18	24.182	11.948	1421	12	5.066	20.140
1145	29	25.607	16.646	1217	14	18.188	23.060	1278	24	6.488	3.056	1350	25	25.210	11.166	1422	12	6.201	20.105
1146	13	4.012	17.158	1218	41	21.039	23.956	1279	13	9.663	3.602	1351	20	2.699	12.659	1423	12	12.149	20.078
1147*	44	7.875	17.791	1219*	48	1.753	24.214	1280	17	10.770	3.132	1352	14	5.084	12.645	1424	12	13.275	20.256
1148	23	10.067	17.660	1220	14	2.455	24.942	1281	14	12.270	3.625	1353	16	6.702	12.330	1425	26	20.145	20.558
1149	12	12.541	17.332	1221	10	2.619	24.332	1282	15	12.810	3.392	1354	13	7.620	12.787	1426	14	22.694	20.539
1150	31	14.887	17.172	1222	24	8.140	24.663	1283	12	16.240	3.224	1355	10	8.356	12.262	1427	14	23.419	20.414
1151	39	16.840	17.388	1223	10	13.944	24.408	1284	21	2.795	4.295	1356	29	11.875	12.602	1428	13	1.835	21.426
1152*	48	18.158	17.750	1224	13	17.462	24.652	1285	22	7.642	4.768	1357	12	14.892	12.632	1429	22	3.609	21.932
1153	18	19.434	17.378	1225*	38	19.353	24.588	1286	35	9.215	4.950	1358	23	16.385	12.336	1430	24	4.518	21.906
1154	13	19.572	17.756	1226	10	21.293	24.256	1287	35	10.890	4.807	1359	12	16.492	12.617	1431	12	8.356	21.470
1155	12	21.430	17.024	1227*	54	23.066	24.328	1288	20	11.992	4.742	1360*	51	20.889	12.531	1432	24	8.422	21.602
1156	29	0.716	18.592	1228	17	23.982	24.552	1289	13	12.200	4.055	1361	25	25.454	12.946	1433*	55	16.135	21.079
1157	11	1.700	18.984	1229	10	24.019	24.442	1290	13	13.297	4.756	1362	13	0.335	13.976	1434	21	16.194	21.380
1158*	48	3.596	18.320	1230	14	25.215	24.594	1291	18	16.344	4.722	1363	20	3.860	13.546	1435	11	17.644	21.336
1159	12	9.230	18.046	1231	15	2.333	25.770	1292	26	19.160	4.452	1364	38	9.595	13.455	1436	12	22.080	21.348
1160	14	10.458	18.288	1232	30	4.016	25.229	1293	28	23.000	4.600	1365	19	11.474	13.570	1437	14	23.096	21.794
1161*	37	13.346	18.095	1233	19	12.576	25.221	1294	21	25.120	4.205	1366	20	17.320	13.906	1438	10	23.881	21.500
1162	26	15.898	18.151	1234	11	15.642	25.032	1295	40	8.910	5.424	1367	16	17.692	13.545	1439	16	0.640	22.275
1163	16	16.367	18.398	1235	27	18.103	25.151	1296*	40	11.380	5.650	1368	16	22.053	13.960	1440	14	1.828	22.515
1164	15	16.579	18.544	1236	11	22.717	25.519	1297	38	13.248	5.235	1369	20	22.420	13.160	1441	13	3.808	22.764
1165	18	1.574	19.016	1237	40	23.086	25.442	1298	25	15.505	5.170	1370	31	2.726	14.584	1442	21	4.472	22.035
1166	31	5.507	19.209					1299	10	17.558	5.564	1371	10	15.326	14.094	1443*	45	4.528	22.545
1167	18	7.938	19.490					1300*	57	0.377	6.163	1372	16	17.965	14.560	1444	17	6.294	22.046
1168	20	9.610	19.819					1301	42	1.060	6.434	1373	12	19.496	14.025	1445	24	9.320	22.778
1169	22	11.286	19.577					1302	23	5.834	6.510	1374	11	20.312	14.996	1446	20	10.359	22.031
1170	23	17.886	19.826					1303	14	6.160	6.929	1375	12	21.345	14.825	1447	30	13.094	22.606
1171	17	19.318	19.331					1304	14	14.075	6.032	1376	11	21.772	14.118	1448	23	13.147	22.355
1172	12	19.566	19.388					1305*	45	14.505	6.762	1377	20	25.442	14.100	1449	13	15.546	22.982
1173*	62	22.612	19.106					1306	25	22.473	6.968	1378	17	0.593	15.683	1450	13	22.411	22.404
1174	11	25.783	19.448					1307	36	2.087	7.026	1379	20	0.725	15.216	1451	19	22.847	22.536
1175	24	2.687	20.350					1308	23	3.377	7.215	1380	24	5.376	15.530	1452	20	6.604	23.418
1176	21	3.405	20.555					1309	18	14.612	7.795	1381*	74	10.328	15.529	1453	26	6.967	23.808
1177	22	4.225	20.029					1310	37	21.492	7.281	1382	13	10.843	15.284	1454	10	7.092	23.394
1178	25	4.781	20.258					1311	31	2.884	8.398	1383	31	14.404	15.410	1455	38	8.102	23.952
1179	18	8.634	20.346					1312	32	3.392	8.386	1384*	80	15.570	15.146	1456	12	8.486	23.797
1180	15	10.014	20.212					1313	35	4.982	8.799	1385	26	3.582	16.637	1457	22	8.540	23.250
1181	31	10.134	20.122					1314	11	6.919	8.745	1386	13	4.261	16.017	1458	18	9.550	23.478
1182	25	12.880	20.137					1315	34	8.136	8.852	1387	21	13.402	16.102	1459	15	12.219	23.270
1183	29	13.272	20.198					1316	15	8.710	8.302	1388	25	17.698	16.803	1460	16	12.554	23.620
1184	18	13.628	20.211					1317	18	10.798	8.870	1389	19	18.130	16.564	1461	40	15.626	23.928
1185*	45	14.892	20.753					1318	13	16.750	8.630	1390	20	21.876	16.707	1462	26	17.714	23.470
1186	24	15.214	20.160					1319	24	17.288	8.766	1391	23	23.100	16.330	1463	38	21.854	23.815
1187	11	15.766	20.328					1320	24	18.619	8.615	1392	18	24.191	16.288	1464	13	24.900	23.412
1188	12	20.173	20.916					1321	11	21.374	8.139	1393	13	25.396	16.770	1465*	60	1.133	24.351
1189*	67	21.800	20.438					1322	11	21.466	8.172	1394	10	25.968	16.940	1466	14	2.060	24.562
1190	18	25.050	20.372					1323	13	21.877	8.214	1395	13	8.133	17.274	1467	13	2.096	24.455
1191	14	3.043	21.815					1324	14	22.323	8.434	1396	42	9.856	17.353	1468	13	3.292	24.588
1192*	42	3.951	21.950					1325*	68	22.974	8.180	1397	11	11.634	17.215	1469*	49	6.585	24.674
1193	27	6.894	21.537					1326	32	23.046	8.161	1398	22	14.494	17.035	1470	17	10.872	24.420
1194*	69	13.229	21.028					1327	12	25.636	8.082	1399	10	18.923	17.692	1471	12	12.296	24.712



1477	24	22.598	24.320	1538	38	21.779	7.285	1610	33	4.872	20.364	1671	17	2.569	2.184	1743	37	22.946	8.920
1478	47	25.410	24.228	1539	66	0.990	8.218	1611	11	20.317	20.194	1672	19	5.870	2.514	1744	58	23.302	8.110
1479	27	25.814	24.059	1540	28	1.070	8.198	1612	10	23.924	20.512	1673	14	6.176	2.708	1745	14	0.180	9.373
1480	11	0.807	25.546	1541	13	7.336	8.652	1613	19	11.388	21.602	1674	26	7.558	2.123	1746	45	1.965	9.777
1481	43	1.170	25.464	1542	29	16.728	8.433	1614	10	23.585	21.326	1675	51	8.532	2.100	1747	18	3.468	9.557
1482	17	6.537	25.780	1543	29	22.578	8.681	1615	24	9.316	22.873	1676	15	9.213	2.796	1748	45	4.040	9.658
1483	12	7.177	25.840	1544	19	23.487	8.566	1616	10	9.802	22.450	1677	25	12.473	2.188	1749	35	4.044	9.650
1484	23	14.110	25.490	1545	28	0.450	9.842	1617	22	21.660	22.540	1678	17	13.799	2.060	1750	22	14.820	9.734
1485	12	16.449	25.991	1546	27	8.004	9.967	1618	18	22.082	22.647	1679	16	13.974	2.034	1751	36	18.079	9.684
1486	12	21.527	25.288	1547	19	21.215	9.219	1619	30	22.531	22.198	1680	25	15.561	2.720	1752	14	19.808	9.176
1487	16	25.702	25.020	1548	44	24.107	9.566	1620	30	0.033	23.860	1681	30	17.025	2.086	1753	11	21.442	9.738
				1549	52	0.021	10.414	1621	10	10.390	23.849	1682	10	17.664	2.850	1754	16	22.320	9.490
				1550	37	5.180	10.392	1622	30	0.344	24.828	1683	12	19.890	2.490	1755	26	24.871	9.212
				1551	17	5.598	10.580	1623	17	0.784	24.358	1684	16	6.209	3.904	1756	20	2.588	10.574
				1552	23	12.558	10.042	1624	45	3.590	24.240	1685	27	7.507	3.640	1757	41	8.644	10.542
				1553	29	19.104	10.574	1625	26	3.996	24.007	1686	10	9.058	3.300	1758	23	9.891	10.787
				1554	26	20.504	10.634	1626	31	9.740	24.008	1687	45	9.326	3.000	1759	14	10.010	10.500
				1555	23	3.260	11.183	1627	14	11.745	24.954	1688	24	13.520	3.312	1760	19	21.371	10.896
				1556	38	5.613	11.940	1628	12	19.154	24.929	1689	50	18.644	3.188	1761	29	23.370	10.026
				1557	14	11.406	11.836	1629	37	22.520	24.878	1690	27	19.016	3.566	1762	26	4.480	11.520
				1558	27	19.500	11.070	1630	13	24.662	24.362	1691	14	19.942	3.925	1763	20	7.270	11.970
				1559	42	20.400	11.578	1631	26	4.637	25.145	1692	16	21.735	3.991	1764	10	10.190	11.436
				1560	19	3.522	12.959	1632	16	8.358	25.230	1693	18	23.929	3.532	1765	29	13.375	11.345
				1561	29	5.107	12.176	1633	23	8.839	25.474	1694	40	7.506	4.318	1766	19	13.872	11.538
				1562	17	9.707	12.824	1634	26	12.425	25.030	1695	23	17.382	4.304	1767	35	17.564	11.310
				1563	16	10.208	12.050	1635	65	15.497	25.454	1696	29	20.015	4.382	1768	12	18.614	11.614
				1564	17	12.130	12.611	1636	53	21.598	25.992	1697	57	21.494	4.555	1769	37	20.306	11.153
				1565	33	19.878	12.490	1637	31	24.071	25.050	1698	37	21.540	4.405	1770	10	22.360	11.580
				1566	12	20.884	12.470					1699	11	25.050	4.416	1771	40	8.948	12.110
				1567	10	25.696	12.707					1700	21	0.074	5.682	1772	29	11.634	12.813
				1568	13	0.494	13.200					1701	15	2.524	5.510	1773	76	11.871	12.372
				1569	42	6.658	13.390					1702	15	2.840	5.726	1774	14	15.050	12.005
				1570	23	8.388	13.235					1703	13	4.048	5.684	1775	27	15.136	12.990
				1571	27	13.112	13.954					1704	26	5.349	5.420	1776	55	15.410	12.986
				1572	25	13.734	13.164					1705	23	7.542	5.980	1777	27	16.660	12.238
				1573	35	19.385	13.132					1706	14	8.076	5.946	1778	27	19.332	12.738
				1574	19	3.524	14.112					1707	22	9.628	5.570	1779	27	21.076	12.058
				1575	10	5.786	14.689					1708	14	10.900	5.802	1780	12	21.539	12.430
				1576	24	7.610	14.914					1709	14	13.998	5.698	1781	40	6.150	13.400
				1577	19	8.504	14.670					1710	18	14.174	5.880	1782	26	11.794	13.570
				1578	34	21.307	14.628					1711	14	14.330	5.339	1783	17	13.926	13.597
				1579	14	22.522	14.272					1712	24	18.995	5.160	1784	33	20.950	13.751
				1580	22	6.480	15.670					1713	20	7.541	6.542	1785	34	23.824	13.679
				1581	18	10.681	15.855					1714	17	8.670	6.840	1786	20	0.456	14.506
				1582	76	12.590	15.638					1715	11	8.907	6.132	1787	14	8.509	14.234
				1583	28	17.672	15.189					1716	30	10.777	6.325	1788	19	10.475	14.908
				1584	16	20.140	15.330					1717	12	12.244	6.468	1789	27	14.770	14.832
				1585	19	1.201	16.366					1718	12	12.774	6.180	1790	13	15.125	14.780
				1586	23	10.560	16.147					1719	14	24.878	6.298	1791	12	16.284	14.134
				1587	17	15.362	16.477					1720	30	5.137	7.778	1792	18	17.351	14.655
				1588	13	0.824	17.094					1721	32	5.620	7.566	1793	11	20.380	14.880
				1589	21	9.383	17.276					1722	20	13.010	7.078	1794	12	5.610	15.890
				1590	33	11.678	17.526					1723	11	13.129	7.954	1795	15	11.066	15.208
				1591	14	14.686	17.940					1724	26	13.524	7.022	1796	15	12.690	15.350
				1592	22	17.144	17.885					1725	29	14.790	7.346	1797	19	16.400	15.860
				1593	23	18.037	17.890					1726	45	14.809	7.090	1798	20	17.114	15.632
				1594	21	24.585	17.452					1727	16	15.034	7.854	1799	28	18.771	15.242
				1595	18	5.720	18.344					1728	11	17.291	7.084	1800	16	19.924	15.003
				1596	47	12.298	18.650					1729	11	17.914	7.550	1801	23	23.930	16.866
				1597	12	16.080	18.164					1730	15	22.284	7.348	1802	19	24.895	16.847
				1598	17	16.416	18.476					1731	15	25.912	7.015	1803	27	2.567	17.655
				1599	30	18.343	18.447					1732	31	0.425	8.914	1804	22	7.906	17.850
				1600	20	18.441	18.868					1733	26	1.333	8.786	1805	12	10.208	17.386
				1601	20	21.819	18.524					1734	16	2.718	8.690	1806	10	10.564	17.414
				1602	12	10.076	19.116					1735	11	4.030	8.438	1807	27	10.795	17.736
				1603	16	10.357	19.648					1736	26	10.024	8.657	1808	14	11.110	17.384
				1604	22	13.272	19.634					1737	25	14.406	8.724	1809	10	11.513	17.970
				1605	30	17.300	19.088					1738	17	14.488	8.980	1810	27	11.558	17.824
				1606	32	21.225	19.548					1739	17	14.641	8.702	1811	13	12.282	17.491
				1607	25	24.434	19.110					1740							



1815	46	20.462	17.430	<div>R.A. 1<sup>h</sup> 16<sup>m</sup></div> <div>Plate 1763; 1920 Dec. 8.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—01713 +00978 —2600</div> <div>D E F</div> <div>—00948 —01767 —2574</div> <div>Mag.=16.0—1.05√d</div>	1956	32	1.794	13.795	<div>R.A. 1<sup>h</sup> 24<sup>m</sup></div> <div>Plate 1752; 1920 Dec 5.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>—01738 +01444 —1375</div> <div>D E F</div> <div>—01461 —01745 —1051</div> <div>Mag.=17.0—1.05√d</div>	2106	33	25.651	6.158
1816	26	24.399	17.230		1957	26	4.788	13.381		2107	44	3.905	7.620
1817	32	25.531	17.031		1958*	37	6.674	13.772		2108	40	4.295	7.270
1818	13	0.842	18.798		1959	27	9.995	13.050		2109	21	6.958	7.250
1819	26	14.955	18.574		1960	13	12.578	13.570		2110	24	11.491	7.570
1820	14	16.574	18.928		1961	23	17.599	13.062		2111	14	15.732	7.616
1821	22	17.681	18.530		1962	12	21.259	13.330		2112	28	16.171	7.502
1822	26	23.400	18.428		1963	12	22.700	13.284		2113	17	16.800	7.188
1823	31	2.440	19.315		1964	21	10.211	14.845		2114	12	17.114	7.540
1824	28	3.941	19.304		1965	23	14.570	14.898		2115	15	20.420	7.629
1825	11	14.262	19.234		1966	14	15.928	14.348		2116	15	22.645	7.430
1826	11	15.904	19.280		1967	34	17.654	14.195		2117*	58	25.480	7.854
1827	26	17.024	19.078		1968	38	21.880	14.976		2118	20	0.040	8.615
1828	33	18.092	19.704		1969	21	23.982	14.024		2119	18	8.080	8.799
1829	16	20.342	19.385		1970	22	14.120	15.966		2120	16	9.389	8.875
1830	37	23.206	19.530		1971*	53	18.310	15.422		2121	10	11.628	8.067
1831	10	0.860	20.780		1972	14	1.940	16.982		2122	15	20.252	8.929
1832	22	1.952	20.724		1973	12	2.904	16.950		2123	19	23.926	8.780
1833	28	7.418	20.538		1974	16	7.690	16.971		2124	19	0.526	9.308
1834	18	7.532	20.815		1975	24	13.455	16.636		2125	13	5.452	9.337
1835	34	7.970	20.144		1976*	35	17.529	16.747		2126	12	6.852	9.171
1836	16	15.100	20.564		1977	13	2.412	17.399		2127	24	17.828	9.598
1837	32	22.505	20.093		1978	32	3.542	17.126		2128	14	22.250	9.904
1838	14	23.636	20.181		1979*	39	10.290	17.644		2129	38	4.994	10.325
1839	11	23.790	20.662		1980	23	10.590	17.863		2130	12	7.679	10.801
1840	16	1.625	21.544		1981	34	19.107	17.719		2131	15	8.010	10.445
1841	12	6.668	21.938		1982	12	1.426	18.546		2132	14	10.871	10.445
1842	11	11.890	21.024		1983	12	5.042	18.498		2133	20	21.032	10.320
1843	18	14.700	21.974		1984	32	18.860	18.531		2134*	100	8.939	11.034
1844	10	21.482	21.570		1985	15	21.965	18.050		2135*	80	10.698	11.948
1845	28	21.690	21.552		1986	35	1.247	19.653		2136	24	10.922	11.415
1846	25	25.128	21.340		1987	31	13.942	19.321		2137	16	14.670	11.629
1847	24	0.146	22.887		1988	26	16.627	19.374		2138	20	15.706	11.506
1848	32	0.590	22.430		1989	15	19.850	19.906		2139	20	16.132	11.240
1849	12	2.746	22.153		1990*	46	23.258	19.620		2140	19	23.537	11.872
1850	14	7.240	22.010		1991	24	25.922	19.220		2141	36	24.346	11.408
1851	12	13.740	22.970		1992	33	0.554	20.224		2142*	74	7.976	12.696
1852	14	13.850	22.525		1993	27	6.485	20.116		2143	12	18.896	12.754
1853	26	14.130	22.561		1994	35	18.068	20.611		2144	40	25.940	12.890
1854	15	22.725	22.414		1995*	48	18.918	20.020		2145	24	0.875	13.648
1855	11	24.736	22.074		1996	13	3.194	21.439		2146	11	10.262	13.546
1856	37	7.096	23.774		1997*	40	4.612	21.370		2147	21	19.542	13.520
1857	11	9.770	23.098		1998	10	5.794	21.432		2148	19	21.485	13.386
1858	11	11.454	23.211		1999	14	9.836	21.271		2149	17	21.744	13.394
1859	17	14.952	23.712		2000	12	13.242	21.498		2150	24	22.588	13.296
1860	21	15.400	23.490		2001	25	15.848	21.698		2151	11	25.529	13.476
1861	12	15.702	23.362		2002	10	23.312	21.493		2152	30	2.169	14.370
1862	26	18.712	23.832		2003	28	6.986	22.132		2153	34	4.675	14.205
1863	17	23.842	23.620		2004	12	23.228	22.191		2154	20	6.295	14.355
1864	22	2.754	24.565		2005	44	9.936	23.980		2155	13	9.516	14.486
1865	23	4.512	24.362		2006	12	11.220	23.113		2156	13	10.300	14.578
1866	10	4.758	24.868		2007*	36	15.349	23.394		2157*	49	22.406	14.963
1867	16	11.582	24.212		2008*	64	17.994	23.558		2158	11	22.640	14.250
1868	19	17.374	24.555		2009	22	18.986	23.238		2159	13	23.480	14.900
1869	18	18.016	24.048		2010	39	0.022	24.492		2160	40	0.081	15.355
1870	22	20.470	24.730		2011	32	5.160	24.088		2161	18	3.994	15.925
1871*	47	21.920	24.356		2012	27	12.211	24.038		2162	40	7.994	15.338
1872	45	0.616	25.111		2013*	48	16.255	24.845		2163	20	10.440	15.677
1873	38	2.170	25.262		2014	21	5.134	25.618		2164	17	13.958	15.614
1874	14	5.034	25.534		2015	15	5.810	25.940		2165	12	15.610	15.888
1875	15	9.072	25.365		2016	29	13.462	25.242		2166	26	17.870	15.435
1876	27	13.140	25.049		2017	27	19.871	25.550		2167	17	19.866	15.481
1877	14	16.812	25.560							2168	16	21.005	15.050
1878	20	19.840	25.562							2169	32	22.993	15.264
				No. d x y						2170	27	23.117	15.418
				1901 14 2.980 0.771						2171	38	6.145	16.455
				1902 31 3.088 0.850						2172	14	9.645	16.675
				1903 12 3.162 0.090						2173	20	15.510	16.890
				1904 29 13.986 0.866						2174	40	20.595	16.750
				1905 17 21.140 0.357						2175	18	25.750	16.774
				1906 40 7.787 1.420						2176	20	0.077	17.270
				1907 34 11.472 1.382						2177	12	2.342	17.054
				1908* 41 16.628 1.780									
				1909* 42 19.785 1.910									
				1910* 47 22.184 1.212									
				1911* 39 4.776 2.722									
				1912 17 24.741 2.900									
				1913* 38 6.451 3.675									
				1914 34 15.161 3.153									
				1915 12 22.957 3.737									
				1916 25 7.166 4.225									
				1917 24 11.800 4.560									
				1918 15 15.540 4.249									
				1919 29 16.509 4.172									
				1920 11 17.371 4.079									
				1921 36 22.140 4.870									
				1922 37 7.948 5.947									
				1923 35 10.588 5.248									
				1924 29 10.927 5.304									
				1925 12 20.029 5.638									
				1926 24 22.612 5.542									
				1927 19 4.096 6.178									
				1928 33 6.320 6.556									
				1929 11 6.469 6.132									
				1930 32 6.734 6.668									
				1931 12 8.879 6.468							</		



2178	20	7-668	17 800	<b>R.A. 1<sup>h</sup> 32<sup>m</sup></b> Plate 1711; 1920 Oct. 16. <i>Provisional Constants.</i> A B C -01733 +00881 -1644 D E F -00907 -01735 +1882 $Mag.=17.0-1.05\sqrt{d}$	2306	18	25-465	5-855	2378	36	4 814	15-074	2450	13	5-756	24-770
2179	26	18 761	17-234		2307	20	1-445	6-546	2379	36	5-416	15-794	2451	14	6-294	24-080
2180	33	22 455	17-864		2308	39	3-494	6 764	2380*	58	12-789	15-034	2452*	40	12-774	24-166
2181	14	23-615	17-140		2309	15	12-966	6-540	2381	20	16-730	15-364	2453	37	13-975	24-034
2182	22	23 690	17-973		2310	17	14-176	6-124	2382	30	17-946	15-736	2454	30	20-053	24-766
2183	26	0 224	18-430		2311	14	18-264	6-685	2383	16	23-504	15-162	2455	39	21-778	24-310
2184	18	0 754	18-574		2312	17	20-553	6-871	2384	19	23-696	15-824	2456	21	25-084	24-543
2185	10	5-106	18-624		2313*	48	25-150	6-240	2385	24	25-074	15-436	2457	12	4-848	25-053
2186	24	17-119	18-880		2314	33	25-304	6-571	2386	15	25 776	15-276	2458	30	7-578	25-426
2187	17	18-896	18-565		2315	32	25-404	6 605	2387	28	1-024	16-036	2459	28	11-722	25-950
2188	28	19-306	18-644		2316	36	2-514	7-574	2388	39	9-914	16-195	2460	21	16-811	25 718
2189	15	21-220	18-819		2317	24	8-474	7-154	2389	34	19-687	16-065	2461	38	20-154	25-316
2190	19	21-993	18-074		2318	21	9-444	7-857	2390	16	1-535	17-760	2462	34	21-396	25-295
2191	22	24 424	18-492		2319	24	15-053	7-503	2391	19	3-666	17-375				
2192*	56	1-539	19-976		2320	20	15-222	7-256	2392	16	9-869	17-854				
2193	33	4-200	19-530		2321	37	19-297	7-116	2393	15	13-274	17-714				
2194	11	8-390	19-423		2322	14	20-516	7-636	2394	15	13 454	17-144				
2195	28	9-024	19-859		2323	15	0-498	8-056	2395	17	16-050	17-500				
2196*	58	19-368	19-886		2324*	60	3-331	8-458	2396	38	22-062	17-775				
2197	22	20-178	19-035		2325	22	4-650	8-576	2397	25	0 380	18-489				
2198*	48	24 092	19-458		2326	26	6-696	8-066	2398	21	1 615	18-594				
2199	20	12-893	20-004		2327	16	8-360	8-946	2399	17	2-466	18-262				
2200	20	15-174	20-034		2328	16	16-452	8-018	2400	28	9 634	18-184				
2201	16	16-362	20-636		2329	32	18-327	8-006	2401	26	10-290	18-658				
2202	38	21 844	20-875		2330	41	22-882	8-528	2402	18	12-592	18-486				
2203	19	22-710	20-844		2331*	58	23-345	8-114	2403	24	20-568	18-376				
2204	22	22-904	20-221		2332	24	1-791	9-395	2404	14	21-376	18-031				
2205	19	25-546	20-048		2333	15	3-207	9 016	2405	26	21-577	18-987				
2206	12	25-670	20-352		2334	14	11-320	9-606	2406*	39	22-793	18-905				
2207	24	1-630	21-850		2335	37	22-414	9-948	2407	22	23-422	18-540				
2208	12	7-014	21-734		2336	17	0-122	10-534	2408	19	2-354	19-106				
2209	14	16-490	21-663		2337*	44	8-281	10-222	2409*	77	4-766	19-374				
2210	40	19-600	21-912		2338	22	9-744	10-004	2410	18	5-526	19-566				
2211	28	1-559	22-546		2339	24	18-332	10-335	2411	11	6-841	19-606				
2212	20	4-154	22-741		2340	15	20-388	10-640	2412*	46	8-686	19-600				
2213	14	17-195	22-256		2341	16	25-234	10-916	2413	16	14-428	19-075				
2214	19	17-624	22-569		2342	17	4-224	11-385	2414	38	16-894	19-732				
2215	16	18-650	22-099		2343*	54	7-274	11-256	2415	11	21-026	19-766				
2216	40	19-662	22-136		2344	11	8-090	11-915	2416	12	21-425	19-813				
2217	25	21-112	22-202		2345	12	10-748	11-428	2417	15	21-944	19-984				
2218	28	21-724	22-976		2346	14	12-742	11-035	2418	20	0-844	20-845				
2219	24	4-025	23-736		2347	16	17-840	11-050	2419*	48	2-024	20-074				
2220	20	14-282	23-308		2348	19	18-988	11-188	2420	23	3-485	20-652				
2221	12	19-164	23-980		2349	34	22-165	11-766	2421	15	3-612	20-955				
2222	10	0-135	24-580		2350*	70	23-915	11-272	2422	30	6-242	20-474				
2223	35	8-550	24-462		2351	20	1-421	12-494	2423	16	6-270	20-476				
2224	19	8-646	24-605		2352	31	2-224	12-020	2424	23	9-628	20-688				
2225	19	11-318	24-624		2353	14	6-345	12-976	2425	42	10-441	20-715				
2226	10	12-713	24-054		2354	23	9-571	12-264	2426	37	12-124	20-246				
2227	38	15-064	24-248		2355	15	15-770	12-556	2427	16	13-096	20-071				
2228*	42	19-510	24-460		2356	11	20-240	12-661	2428	36	14-066	20-764				
2229	22	23-332	24-060		2357	16	22-025	12-656	2429	22	16-429	20-536				
2230	12	3-976	25-647		2358*	46	23-538	12-594	2430	19	0-656	21-468				
2231	25	4-274	25-928		2359	23	24-156	12-179	2431	12	4-324	21-415				
2232*	52	11-152	25-206		2360	24	25-384	12-585	2432	15	6-196	21-795				
2233	140	15-218	25-986		2361	17	0-482	13-924	2433*	52	8-848	21-278				
2234	31	15-690	25-860		2362	38	3-826	13-494	2434	17	10-416	21-509				
2235	20	18-490	25-882		2363	44	8-744	13-054	2435	14	16-191	21-232				
2236	19	18-510	25-894		2364	38	9-573	13-401	2436	28	18-958	21-570				
					2365*	66	10 924	13-206	2437	37	19-802	21-324				
					2366	36	17-478	13-126	2438	12	24-121	21-164				
					2367	15	19 575	13-856	2439	28	25-974	21-824				
					2368*	57	21-158	13-087	2440	34	18-078	22-984				
					2369	16	23-444	13-955	2441*	140	18-525	22-062				
					2370	27	24-779	13-403	2442	37	23-190	22-602				
					2371	13	2-424	14-089	2443*	48	25-106	22-748				
					2372	13	9-980	14-004	2444	32	10-089	23-866				
					2373	20	11-445	14-695	2445	15	11-318	23-928				
					2374	34	13-586	14-356	2446	16	15-212	23-524				
					2375*	48	0-308	15-587	2447	38	18-242	23-498				
					2376	30	0-898	15-886	2448	19	24-430	23-841				
					2377	13	1-385	15-516	2449	24	1-300	24-684				

**R.A. 1<sup>h</sup> 40<sup>m</sup>**

Plate 1747; 1920 Dec. 4.

*Provisional Constants.*A B C  
-01733 +00888 -0985D E F  
-00884 -01754 -0558 $Mag.=16.0-1.05\sqrt{d}$ 

No.	d	x	y
2501	20	0-308	0-473
2502	14	5-235	0-095
2503	15	6-236	0-462
2504	12	10-864	0-610
2505	30	19-150	0-380
2506	12	24-315	0-760
2507	11	25-745	0-220
2508*	48	2-248	1-234
2509	24	2-692	1-310
2510	24	4-300	1-510
2511	13	7-344	1-199
2512	27	7-582	1-399
2513	10	13-440	1-101
2514	10	14-859	1-816
2515	18	19-261	1-286
2516*	36	0-868	2-625
2517	10	2-436	2-058
2518	19	6-378	2-142
2519	10	12-673	2-105
2520	33	17-430	2-155
2521	10	21-496	2-222
2522	20	23-900	2-907
2523	28	24-072	2-178
2524	21	25-986	2-192
2525	11	1-350	3-212
2526	27	4-634	3-750
2527	25	6-824	3-350
2528	33	7-892	3-120
2529	12	8-284	3-889
2530	31	11-491	3-400
2531	28	11-578	3-916
2532	16	11-817	3-375
2533	10	15-208	3-725
2534	15	16-832	3-934
2535	12	22-373	3-778



2536	26	24.816	3.458	2608	12	24.376	10.282	2680	15	17.165	18.945	R.A. 1 <sup>h</sup> 48 <sup>m</sup> Plate 1767; 1920 Dec 9. Provisional Constants. A            B            C -01733 +00999 +2228 D            E            F -00982 -01793 -0485 Mag.=15.9-1.05√d	2806	19	16.824	10.810
2537	10	3.453	4.228	2609	25	0.196	11.740	2681	38	19.984	18.648		2807	10	16.838	10.698
2538	37	4.510	4.972	2610*	45	1.935	11.224	2682	10	23.770	18.832		2808	28	21.810	10.254
2539	10	5.680	4.435	2611	19	4.233	11.750	2683*	41	24.010	18.474		2809	36	0.364	11.570
2540	12	8.620	4.688	2612	14	7.485	11.213	2684	21	16.036	19.982		2810	28	1.911	11.294
2541	33	10.711	4.216	2613	31	8.932	11.488	2685	12	16.668	19.580		2811	32	3.598	11.909
2542	29	15.115	4.010	2614	12	15.885	11.614	2686	16	18.372	19.960		2812	18	4.862	11.232
2543	14	16.080	4.151	2615	19	19.294	11.791	2687	33	21.368	19.824		2813*	41	4.946	11.509
2544	23	17.441	4.938	2616	35	22.070	11.356	2688	28	25.910	19.239		2814	24	5.945	11.310
2545	10	17.637	4.827	2617	29	23.619	11.100	2689	17	10.486	20.483		2815	16	15.870	11.288
2546	21	18.256	4.228	2618	31	25.300	11.738	2690	14	10.834	20.481	2816	24	24.476	11.266	
2547	25	18.421	4.614	2619*	38	1.576	12.551	2691	13	12.028	20.074	2817	29	24.634	11.166	
2548	16	25.910	4.629	2620	16	2.190	12.128	2692	21	12.657	20.788	2818	13	24.710	11.792	
2549	12	3.119	5.448	2621	18	3.424	12.520	2693	10	16.546	20.632	2819	17	21.148	12.176	
2550	10	3.422	5.788	2622	12	6.190	12.468	2694	32	20.572	20.690	2820	14	22.634	12.338	
2551	27	8.827	5.765	2623	13	6.940	12.747	2695	16	4.130	21.752	2821	34	1.510	13.151	
2552	30	9.622	5.559	2624	17	12.154	12.616	2696	18	6.912	21.890	2822	13	1.922	13.924	
2553	17	14.810	5.074	2625	14	12.467	12.960	2697	21	8.342	21.200	2823	33	4.096	13.522	
2554	11	14.962	5.869	2626	14	15.080	12.112	2698	15	8.352	21.200	2824	17	7.345	13.436	
2555	34	15.280	5.284	2627	24	20.100	12.492	2699	12	10.518	21.736	2825	14	8.275	13.600	
2556*	45	3.102	6.178	2628	35	20.575	12.264	2700	12	12.928	21.662	2826	19	12.223	13.155	
2557	28	3.266	6.506	2629	33	23.197	12.952	2701	19	13.638	21.342	2827*	49	12.249	13.835	
2558	29	3.366	6.538	2630	21	2.829	13.342	2702	16	15.524	21.742	2828*	57	21.650	13.134	
2559	37	8.298	6.709	2631	16	7.200	13.846	2703	18	19.019	21.988	2829	13	0.326	14.881	
2560	19	16.184	6.000	2632*	51	11.752	13.703	2704	10	25.170	21.010	2830	11	0.574	14.428	
2561	11	16.648	6.882	2633	25	20.990	13.668	2705	32	1.355	22.560	2831*	52	1.229	14.415	
2562	30	18.184	6.554	2634	10	22.272	13.726	2706*	41	3.271	22.682	2832	20	2.564	14.902	
2563	24	18.364	6.901	2635	13	23.596	13.730	2707	10	6.677	22.378	2833	36	2.852	14.410	
2564	10	22.785	6.660	2636	30	25.776	13.356	2708	35	7.875	22.562	2834	38	3.049	14.458	
2565	12	10.470	7.002	2637	14	5.064	14.592	2709	39	8.158	22.520	2835	31	4.366	14.328	
2566	27	12.757	7.306	2638	22	5.850	14.866	2710	10	20.585	22.468	2836	30	6.610	14.952	
2567*	39	13.760	7.334	2639	13	19.210	14.664	2711	27	22.870	22.031	2837	18	7.835	14.074	
2568	31	13.822	7.333	2640	15	21.988	14.668	2712	13	2.616	23.786	2838	18	10.090	14.586	
2569	12	15.160	7.186	2641	16	22.241	14.218	2713	23	4.944	23.971	2839	27	16.185	14.032	
2570	11	16.303	7.486	2642*	46	22.900	14.212	2714	12	8.637	23.719	2840	19	23.398	14.342	
2571	11	17.201	7.554	2643	18	24.224	14.718	2715	10	9.282	23.054	2841	10	23.450	14.192	
2572	37	0.869	8.494	2644	36	24.522	14.229	2716	12	9.668	23.970	2842*	38	6.038	15.728	
2573*	44	1.325	8.074	2645	38	24.718	14.278	2717	34	11.168	23.556	2843	12	7.128	15.052	
2574	20	6.188	8.169	2646	12	1.574	15.121	2718	18	12.500	23.681	2844	12	7.149	15.044	
2575*	54	6.751	8.861	2647	13	1.780	15.778	2719	18	16.465	23.808	2845	26	8.825	15.090	
2576	28	7.626	8.284	2648	19	3.150	15.376	2720	33	17.544	23.396	2846	25	8.952	15.286	
2577	12	9.460	8.002	2649	12	3.852	15.202	2721	10	21.603	23.035	2847	15	9.180	15.062	
2578	14	10.656	8.004	2650	13	8.126	15.944	2722	11	3.278	24.477	2848	21	9.712	15.995	
2579*	46	12.777	8.508	2651	18	11.634	15.495	2723	19	6.415	24.728	2849	16	11.972	15.220	
2580	22	17.384	8.616	2652	24	19.294	15.154	2724	18	7.756	24.246	2850	34	12.396	15.650	
2581	30	20.605	8.370	2653	28	6.250	16.770	2725	12	8.028	24.248	2851	13	13.374	15.672	
2582	26	21.600	8.493	2654	18	6.405	16.037	2726	23	9.565	24.708	2852	24	15.914	15.490	
2583	19	23.400	8.745	2655	10	12.656	16.170	2727	12	19.876	24.650	2853	34	0.803	16.241	
2584	31	0.422	9.920	2656	22	13.885	16.805	2728	13	19.889	24.628	2854	26	10.018	16.732	
2585	21	4.521	9.758	2657	10	16.080	16.611	2729	20	21.891	24.790	2855	22	13.442	16.256	
2586	33	6.544	9.682	2658	11	19.815	16.192	2730	35	7.025	25.633	2856	23	14.111	16.721	
2587	24	14.069	9.683	2659*	53	20.798	16.602	2731	32	8.776	25.850	2857*	39	20.776	16.032	
2588	19	16.860	9.784	2660	31	22.449	16.032	2732	48	8.786	25.900	2858	30	1.798	17.904	
2589	31	17.180	9.691	2661	34	0.168	17.750	2733	34	12.742	25.880	2859	35	2.624	17.332	
2590	12	17.756	9.070	2662	23	4.729	17.358	2734	29	18.514	25.912	2860	16	4.498	17.842	
2591	19	18.516	9.824	2663	31	8.807	17.468					2861	33	6.632	17.844	
2592	34	21.604	9.256	2664	17	11.197	17.920					2862	33	7.075	17.098	
2593	13	21.892	9.884	2665	28	12.354	17.263					2863	31	12.616	17.634	
2594	10	22.614	9.110	2666	23	16.256	17.750					2864	15	15.620	17.162	
2595	18	23.300	9.485	2667	34	17.268	17.872					2865	29	21.695	17.304	
2596	21	25.073	9.587	2668	18	20.028	17.100					2866	28	22.423	17.068	
2597	28	25.701	9.100	2669	17	21.350	17.699					2867	31	22.735	17.830	
2598	10	3.252	10.855	2670	23</											



2878	29	4.866	20.325	2968	27	11.700	2.235	3040	17	23.701	10.061	3112	11	17.215	18.185
2879*	38	10.203	20.747	2969	20	12.505	2.815	3041	24	2.115	11.535	3113	34	19.230	18.417
2880	12	15.434	20.862	2970	13	14.804	2.466	3042	29	2.272	11.433	3114	14	22.500	18.824
2881	21	16.428	20.522	2971	10	16.255	2.879	3043	20	8.515	11.305	3115	25	22.589	18.436
2882	13	22.004	20.270	2972	14	16.735	2.312	3044	14	15.215	11.214	3116	22	5.246	19.566
2883	15	23.045	20.166	2973	30	16.837	2.843	3045	22	16.186	11.008	3117	11	5.882	19.839
2884	36	24.499	20.591	2974	28	18.720	2.183	3046	10	20.411	11.425	3118	12	7.996	19.566
2885	28	9.466	21.134	2975*	38	18.722	2.220	3047	17	21.678	11.548	3119	19	9.772	19.486
2886	29	13.341	21.120	2976	14	20.312	2.882	3048*	42	24.604	11.050	3120	122	10.895	19.338
2887*	39	15.416	21.300	2977	20	24.575	2.116	3049	24	0.285	12.624	3121	14	14.454	19.220
2888	34	17.164	21.461	2978	12	25.226	2.498	3050	20	2.355	12.056	3122	20	15.047	19.065
2889	34	18.486	21.481	2979	40	0.570	3.420	3051	19	5.264	12.260	3123	29	16.284	19.455
2890	25	18.912	21.730	2980	20	1.894	3.175	3052	22	7.887	12.414	3124	14	19.471	19.975
2891	26	21.770	21.008	2981	30	1.898	3.934	3053	38	12.269	12.514	3125	19	0.765	20.448
2892	34	24.952	21.170	2982	12	7.061	3.460	3054	20	14.049	12.154	3126	40	2.220	20.860
2893	29	1.306	22.235	2983	38	7.104	3.881	3055	11	16.162	12.235	3127*	87	7.909	20.046
2894*	35	12.090	22.452	2984	38	16.110	3.360	3056	21	17.680	12.055	3128	16	9.730	20.812
2895	21	18.616	22.890	2985	19	16.262	3.252	3057	25	19.927	12.730	3129	13	11.490	20.698
2896	22	12.216	23.280	2986	13	17.396	3.218	3058	15	21.075	12.387	3130	15	12.780	20.580
2897	24	15.476	23.524	2987	13	0.069	4.556	3059	31	24.002	12.901	3131	12	16.340	20.267
2898	22	15.755	23.779	2988	24	3.737	4.950	3060	40	24.812	12.569	3132	23	20.185	20.920
2899	13	18.280	23.481	2989	19	10.962	4.665	3061	14	1.720	13.250	3133	12	20.902	20.278
2900	20	21.386	23.286	2990	11	12.374	4.110	3062	12	3.870	13.948	3134	35	2.679	21.435
2901	10	23.071	23.871	2991	12	17.168	4.828	3063	40	8.766	13.285	3135	23	3.955	21.360
2902	34	8.034	24.832	2992	12	17.594	4.354	3064	12	10.477	13.765	3136	12	11.088	21.192
2903	12	9.287	24.944	2993	23	24.374	4.823	3065	22	12.476	13.319	3137	17	23.391	21.906
2904	39	17.065	24.572	2994	16	0.348	5.026	3066	20	14.046	13.121	3138	22	2.474	22.502
2905	10	18.650	24.667	2995	35	1.395	5.172	3067	29	15.342	13.489	3139	23	4.798	22.370
2906	24	18.679	24.731	2996	32	4.419	5.660	3068	17	20.152	13.950	3140	20	5.975	22.395
2907	31	20.209	24.940	2997	17	4.576	5.220	3069	33	25.565	13.498	3141	15	6.619	22.846
2908	15	0.366	25.003	2998	20	10.303	5.222	3070	20	1.064	14.620	3142	20	9.995	22.880
				2999	20	12.206	5.145	3071	19	1.114	14.470	3143	20	11.478	22.935
				3000*	38	21.138	5.224	3072	20	3.676	14.725	3144	13	17.841	22.896
				3001*	29	21.150	5.213	3073	14	4.300	14.201	3145	31	20.078	22.649
				3002	25	22.802	5.175	3074	20	5.320	14.664	3146	20	20.570	22.648
				3003	20	23.952	5.322	3075	24	5.419	14.472	3147*	58	21.346	22.560
				3004	18	20.656	6.555	3076	10	7.669	14.900	3148	18	22.005	22.956
				3005	12	5.058	7.104	3077	40	10.774	14.547	3149	12	22.272	22.368
				3006	18	8.446	7.114	3078	14	13.142	14.579	3150	17	2.816	23.846
				3007	15	8.482	7.500	3079	17	21.380	14.332	3151	21	4.204	23.622
				3008	17	10.654	7.478	3080	20	4.002	15.550	3152	17	7.276	23.306
				3009	12	16.337	7.942	3081	22	5.272	15.657	3153	15	7.584	23.060
				3010	31	20.222	7.228	3082	24	12.220	15.517	3154	27	10.222	23.771
				3011	13	21.456	7.605	3083	17	12.695	15.774	3155	14	12.616	23.791
				3012	25	21.970	7.271	3084	14	18.669	15.768	3156	15	19.911	23.485
				3013	32	3.360	8.595	3085	16	21.704	15.225	3157	15	0.826	24.151
				3014	22	9.703	8.002	3086	17	24.972	15.934	3158	14	2.924	24.214
				3015	24	13.235	8.468	3087	14	3.716	16.715	3159	20	3.136	24.080
				3016	18	13.940	8.019	3088*	40	7.307	16.670	3160	21	9.900	24.905
				3017	18	14.470	8.650	3089	38	9.808	16.970	3161	16	11.473	24.438
				3018	16	16.150	8.785	3090*	96	10.240	16.369	3162	14	12.270	24.870
				3019	18	17.399	8.583	3091	15	11.716	16.079	3163	18	19.900	24.840
				3020	19	17.565	8.320	3092	11	17.740	16.272	3164	14	20.305	24.630
				3021	20	20.282	8.997	3093	12	25.250	16.174	3165	12	0.316	25.976
				3022	28	21.076	8.826	3094	25	0.114	17.354	3166	20	12.120	25.412
				3023	25	21.841	8.340	3095	17	6.682	17.551	3167	28	14.218	25.757
				3024	24	22.452	8.115	3096	28	6.925	17.101	3168	12	15.779	25.040
				3025	17	23.067	8.104	3097	19	10.502	17.548	3169	24	17.558	25.116
				3026	20	3.217	9.666	3098*	40	13.664	17.274	3170	33	21.869	25.496
				3027	20	5.750	9.309	3099	22	14.358	17.946	3171	33	24.683	25.610
				3028*	43	10.026	9.094	3100*	58	14.458	17.196				
				3029	10	12.400	9.640	3101	14	17.885	17.644				
				3030	32	12.439	9.505	3102	19	19.235	17.090				
				3031	20	17.180	9.222	3103	16	20.489	17.546				
				3032	20	17.603	9.685	3104	22	22.874	17.385				
				3033	18	24.112	9.675	3105	23	23.713	17.158				
				3034	12	24.321	9.855	3106	30	24.386	17.795				
				3035	23	4.402	10.090	3107	27	0.430	18.115				
				3036	23	13.144	10.889	3108	40	2.930	18.596				
				3037	17	17.745	10.462	3109	13	3.684	18.919				
				3038*	42	17.888	10.284	3110	12	10.178	18.453				
				3039	19	17.970	10.250	3111	12	15.444	18.340				

R.A. 2<sup>h</sup> 4<sup>m</sup>

Plate 1768 ; 1920 Dec. 9.

Provisional Constants.

A B C  
 -01724 +00716 -2302

D E F  
 -00753 -01756 -2139

Mag. = 16.0 - 1.05√d

No.	d	x	y
3201	12	9.958	0.565
3202	34	24.210	0.202
3203*	66	14.168	1.181
3204*	46	15.325	1.613
3205	14	17.834	1.515
3206	13	17.879	1.413
3207	29	18.250	1.236
3208*	48	20.666	1.080
3209	29	25.950	1.726
3210	18	2.268	2.038
3211	32	7.374	2.959
3212	32	7.485	2.842
3213	15	7.688	2.738
3214	23	9.514	2.796
3215	22	7.475	3.392
3216	32	8.980	3.452
3217	24	18.960	3.871
3218	23	2.102	4.747
3219	17	7.940	4.090
3220	14	7.949	4.110
3221	28	8.214	4.227
3222	17	15.533	4.994
3223	20	20.480	4.861
3224	18	0.538	5.120
3225	20	1.688	5.250
3226	14	22.698	5.112
3227	28	4.518	6.523
3228	21	12.889	6.362
3229	12	12.938	6.650
3230	19	13.875	6.384
3231	23	24.222	6.952
3232	25	3.790	7.067
3233	17	18.027	7.495
3234	10	24.745	7.499
3235*	43	25.020	7.162
3236	23	0.226	8.065
3237	30	5.798	8.626
3238	24	7.675	8.396
3239	20	9.074	8.087
3240	33	11.315	8.706
3241	34	15.166	8.924
3242	15	17.839	8.935
3243*	44	17.860	8.516
3244	20	18.970	8.618
3245	20	21.366	8.320
3246	32	24.904	8.130
3247	17	1.906	9.602
3248	26	5.154	9.432
3249	25	5.750	9.046
3250*	38	15.740	9.459
3251	28	18.538	9.507
3252	32	5.212	10.494
3253	32	9.200	10.774
3254	20	15.419	10.202
3255	35	17.250	10.888



3256	40	21.954	10.800	3328	12	14.125	22.120	3380	10	1.554	3.055	3452	14	21.340	9.410	3524	17	20.852	17.116
3257*	40	2.518	11.869	3329	22	17.951	22.118	3381	31	4.174	3.562	3453	13	25.898	9.646	3525*	55	20.966	17.672
3258	14	6.068	11.948	3330	30	18.230	22.835	3382	31	5.756	3.140	3454	45	25.990	9.759	3526	26	25.061	17.194
3259	15	8.914	11.642	3331*	41	20.835	22.898	3383	32	6.085	3.280	3455	44	0.000	10.936	3527	31	25.492	17.472
3260	16	25.226	11.010	3332	36	5.768	23.932	3384	21	7.517	3.497	3456	10	2.656	10.869	3528*	59	0.530	18.848
3261	34	1.840	12.828	3333	28	6.058	23.832	3385	11	12.740	3.824	3457	35	15.930	10.424	3529	24	0.531	18.820
3262	37	2.646	12.485	3334	23	7.304	23.260	3386	19	15.644	3.805	3458	26	16.178	10.502	3530	38	1.994	18.784
3263	12	9.208	12.366	3335	14	7.460	23.774	3387	31	16.356	3.050	3459	18	17.420	10.816	3531*	51	2.024	18.250
3264	27	20.733	12.594	3336	30	8.771	23.955	3388	16	20.654	3.113	3460	28	20.298	10.334	3532*	100	2.767	18.071
3265	31	20.870	12.444	3337	17	10.590	23.811	3389	20	4.312	4.122	3461	36	23.292	10.391	3533	23	4.572	18.547
3266	19	25.384	12.534	3338	29	14.880	23.116	3390	14	4.931	4.007	3462	18	0.350	11.632	3534	18	7.776	18.164
3267	34	3.410	13.404	3339	17	8.524	24.738	3391	31	10.120	4.412	3463	16	3.207	11.260	3535*	46	11.388	18.005
3268	28	7.685	13.617	3340*	44	22.123	24.546	3392	28	10.573	4.899	3464	21	3.279	11.108	3536*	53	11.410	18.010
3269	26	23.039	13.256	3341	33	2.698	25.526	3393	14	12.780	4.604	3465	14	11.838	11.102	3537	22	17.231	18.266
3270	13	5.145	14.068	3342	30	5.245	25.546	3394	41	13.001	4.210	3466	14	14.916	11.448	3538	22	21.235	18.956
3271	12	7.956	14.402	3343	15	13.213	25.080	3395	38	13.760	4.900	3467	31	16.115	11.804	3539	20	22.372	18.844
3272	30	11.460	14.028	3344	32	16.018	25.184	3396	15	15.236	4.234	3468	12	17.448	11.145	3540	14	0.667	19.044
3273	12	12.655	14.886	3345	11	18.861	25.800	3397	28	18.088	4.375	3469	22	25.200	11.331	3541	27	1.120	19.839
3274	11	14.738	14.221	3346	21	20.638	25.090	3398	13	20.890	4.726	3470	30	25.652	11.320	3542	31	4.045	19.135
3275	20	17.678	14.995					3399	29	23.290	4.586	3471	11	1.188	12.168	3543	16	6.029	19.115
3276	28	24.308	14.216					3400*	84	25.320	4.982	3472	26	3.454	12.628	3544	28	8.309	19.052
3277	13	24.920	14.840					3401	14	25.780	4.262	3473*	57	5.639	12.528	3545	31	11.226	19.190
3278	17	2.854	15.847					3402	23	0.676	5.238	3474	15	14.870	12.238	3546	9	11.896	19.627
3279	19	8.162	15.400					3403	16	1.483	5.224	3475	18	16.898	12.967	3547*	62	12.569	19.312
3280*	40	9.868	15.874					3404	14	4.059	5.680	3476	11	18.821	12.058	3548	18	20.826	19.416
3281	21	10.094	15.282					3405	21	9.609	5.810	3477	21	19.479	12.459	3549	28	22.438	19.454
3282*	35	14.614	15.006					3406	27	14.062	5.608	3478	36	22.964	12.518	3550	13	25.110	19.820
3283*	39	16.638	15.238					3407	32	15.340	5.946	3479	28	1.120	13.380	3551	40	1.548	20.470
3284	25	4.620	16.604					3408	44	17.083	5.735	3480	11	8.514	13.316	3552*	57	2.255	20.370
3285	32	9.495	16.763					3409	13	18.255	5.246	3481	12	11.646	13.470	3553	10	2.825	20.827
3286	25	10.810	16.238					3410	11	19.698	5.017	3482	10	13.474	13.648	3554	41	3.240	20.380
3287*	45	21.980	16.166					3411	47	24.895	5.896	3483	42	20.630	13.238	3555	11	5.970	20.196
3288	22	0.776	17.328					3412	23	5.600	6.372	3484	30	2.400	14.324	3556	12	9.398	20.314
3289	28	1.610	17.088					3413	15	7.756	6.884	3485	19	3.020	14.938	3557	20	10.367	20.888
3290	34	2.292	17.716					3414	33	9.520	6.792	3486	14	5.016	14.610	3558	16	11.084	20.867
3291	20	4.877	17.728					3415	47	9.750	6.120	3487	17	6.539	14.900	3559	43	11.780	20.710
3292	14	7.930	17.331					3416	42	12.066	6.850	3488	12	7.582	14.890	3560	19	14.133	20.396
3293	23	8.382	17.404					3417*	76	14.098	6.049	3489	28	10.150	14.432	3561	14	18.464	20.260
3294	31	14.202	17.474					3418	20	15.564	6.505	3490	36	17.956	14.339	3562	29	19.827	20.650
3295*	80	24.636	17.969					3419	23	17.111	6.161	3491	15	20.270	14.590	3563	13	24.236	20.721
3296	14	24.954	17.192					3420	13	17.670	6.150	3492	13	22.352	14.388	3564	17	6.336	21.011
3297	33	25.101	17.861					3421	21	21.614	6.268	3493	12	22.744	14.170	3565*	60	10.354	21.689
3298	30	0.504	18.384					3422*	54	21.862	6.415	3494	19	23.700	14.454	3566	18	10.408	21.968
3299	17	9.418	18.128					3423	14	22.709	6.230	3495	9	25.825	14.488	3567	22	15.050	21.625
3300	32	12.390	18.342					3424	23	25.098	6.646	3496	13	0.680	15.984	3568	19	18.716	21.296
3301	14	14.803	18.908					3425	16	25.780	6.006	3497	44	7.550	15.266	3569	25	21.743	21.912
3302	25	22.385	18.686					3426	29	2.223	7.062	3498	18	12.312	15.848	3570	23	23.199	21.929
3303*	45	22.386	18.714					3427	25	2.758	7.603	3499	14	12.548	15.296	3571	13	2.532	22.744
3304	34	23.848	18.670					3428*	53	3.020	7.260	3500	36	14.781	15.104	3572	17	7.340	22.835
3305*	44	23.888	18.139					3429	46	10.903	7.415	3501	14	15.745	15.645	3573	21	8.130	22.637
3306	15	11.556	19.115					3430	10	12.170	7.937	3502	14	16.012	15.880	3574	13	9.406	22.568
3307	23	11.836	19.872					3431	10	14.566	7.386	3503*	55	22.338	15.766	3575	30	10.210	22.548
3308*	41	12.846	19.300					3432	40	2.918	8.228	3504	14	23.194	15.556	3576	9	15.201	22.176
3309	29	14.136	19.095					3433	21	3.244	8.336	3505	14	23.316	15.020	3577	11	19.536	22.825
3310	20	15.970	19.744					3434	41	6.782	8.354	3506	29	23.748	15.987	3578	16	2.280	23.336
3311	31	17.751	19.938					3435	26	7.290	8.300	3507	14	23.992	15.723	3579	17	9.570	23.413
3312	12	21.790	19.898					3436	28	8.478	8.938	3508	23	24.272	15.354	3580	14	11.714	23.798
3313	15	22.960	19.714					3437	14	8.928	8.762	3509*	59	0.090	16.303	3581	33	14.052	23.548
3314	26	25.894	19.046					3438	42	13.014	8.972	3510	11	5.569	16.782	3582	22	18.200	23.500
3315	22	3.951	20.100					3439	17	19.228	8.872	3511	31	13.602	16.896	3583	19	22.115	23.026
3316	20	12.514	20.004					3440	28	22.669	8.606	3512	28	15.290	16.235	3584	13	22.468	23.364
3317	24	15.310	20.259					3441	16	22.750	8.442	3513	11	21.294	16.286	3585*	62	0.340	24.684
3318	12	17.009	20.651					3442	12	23.674	8.454	3514	15	22.404	16.603	3586	10	10.474	24.750
3319	32	23.382	20.350					3443	16	1.240	9.700	3515	26	25.901	16.106	3587	16	23.317	24.434
3320*	48	24.092	20.260					3444	16	1.556	9.741	3516	12	0.902	17.565	3588	25	25.091	24.729
3321	34	25.074	20.282					3445	39	4.598	9.926	3517	24	3.080	17.290	3589	11	0.428	25.215
3322	12	5.738	21.235					3446	12	6.112	9.310	3518	40	3.238	17.960	3590	24	4.676	25.906
3323	31	17.954	21.820					3447	23	9.356	9.106	3519	26	7.469	17.531	3591	22	4.824	25.266
3324	18	20.756	21.280					3448	33	12.302	9.363	3520	36	13.896	17.374	3592	12	5.542	25.399



3596	46	20.544	25.330	3644	12	16.872	7.238	3716	40	23.118	19.245	3769	12	25.573	2.494	3841	31	7.918	14.462				
3597	26	21.160	25.930	3645	16	0.886	8.856	3717	24	6.705	20.819	3770*	71	1.773	3.739	3842	35	13.701	14.758				
3598	15	23.143	25.739	3646	20	5.770	8.034	3718	34	7.254	20.976	3771	25	6.276	3.167	3843	24	16.318	14.664				
3599	56	23.176	25.996	3647*	46	16.340	8.786	3719	25	10.808	20.696	3772	35	13.632	3.718	3844	33	20.250	14.982				
3600	17	23.292	25.036	3648	18	24.133	8.939	3720*	44	24.921	20.066	3773	37	21.042	3.134	3845	16	22.232	14.570				
				3649*	40	4.216	9.972	3721	14	8.170	21.970	3774	20	21.938	3.500	3846	29	23.056	14.929				
				3650	17	6.402	9.262	3722	17	11.570	21.879	3775*	41	23.126	3.496	3847*	63	24.306	14.852				
				3651*	36	13.764	9.378	3723*	42	16.169	21.472	3776*	44	23.553	3.638	3848	22	0.572	15.840				
				3652	33	14.250	9.618	3724*	44	16.182	21.522	3777	21	3.312	4.644	3849	10	7.360	15.313				
				3653*	48	15.900	9.574	3725	11	17.532	21.286	3778	35	10.289	4.686	3850	12	12.282	15.666				
				3654	14	18.708	9.900	3726	12	18.642	21.510	3779	17	14.839	4.810	3851	31	15.189	15.200				
				3655	18	23.233	9.422	3727	38	23.016	21.890	3780	22	21.268	4.428	3852	10	15.814	15.321				
				3656	28	1.530	10.633	3728	21	24.046	21.959	3781	10	21.444	4.860	3853	18	21.270	15.220				
				3657*	40	5.322	10.330	3729	12	25.344	21.762	3782*	44	21.525	4.470	3854	14	0.078	16.853				
				3658	9	18.134	10.122	3730	8	0.118	22.172	3783*	46	2.574	5.912	3855*	49	5.576	16.069				
				3659	11	3.448	11.552	3731	12	14.170	22.893	3784	31	2.670	5.490	3856*	43	5.776	16.513				
				3660	23	3.900	11.536	3732	13	18.132	22.477	3785	16	8.528	5.760	3857	16	7.846	16.930				
				3661	17	5.606	11.174	3733	30	5.829	23.988	3786	29	11.243	5.796	3858	37	9.405	16.696				
				3662	40	8.246	11.982	3734*	40	11.717	23.239	3787	15	11.330	5.210	3859	35	12.317	16.482				
				3663	8	8.476	11.612	3735	16	12.336	23.695	3788	32	11.336	5.210	3860	11	16.522	16.436				
				3664	8	8.480	11.750	3736	18	24.452	23.030	3789*	80	15.604	5.878	3861	16	18.596	16.419				
				3665	10	8.604	11.916	3737	11	3.500	24.950	3790*	50	16.714	5.912	3862	11	0.430	17.685				
				3666	19	12.854	11.174	3738	16	7.580	24.127	3791	35	24.400	5.415	3863	18	1.644	17.463				
				3667	12	14.372	11.653	3739	26	13.573	24.366	3792	10	25.658	5.344	3864	33	8.362	17.708				
				3668	25	15.122	11.212	3740	12	13.797	24.230	3793	16	25.934	5.936	3865	32	13.578	17.764				
				3669	29	1.226	12.764	3741*	38	14.499	24.110	3794	35	9.575	6.308	3866	34	22.758	17.668				
				3670	16	5.894	12.192	3742	18	15.932	24.882	3795	21	10.334	6.508	3867*	78	3.728	18.308				
				3671	22	11.560	12.517	3743*	49	25.214	24.490	3796	24	18.338	6.552	3868	10	6.646	18.521				
				3672	20	13.881	12.609	3744	36	11.082	25.019	3797	40	20.090	6.046	3869	23	8.094	18.083				
				3673	14	15.686	12.998	3745	30	17.854	25.388	3798	15	21.110	6.193	3870	15	16.304	18.022				
				3674	10	22.233	12.259													3871	29	22.732	18.928
				3675	19	11.760	13.008													3872	41	0.940	19.418
				3676	27	14.244	13.580													3873	12	9.401	19.732
				3677*	47	14.626	13.495													3874	28	10.476	19.734
				3678	16	21.116	13.108													3875	18	12.442	19.073
				3679	17	23.991	13.584													3876	34	18.170	19.278
				3680	26	4.883	14.253													3877	23	18.702	19.349
				3681	13	5.790	14.593													3878	33	20.915	19.655
				3682	14	7.244	14.730													3879	13	21.110	19.870
				3683	11	16.938	14.046													3880	35	25.521	19.745
				3684	11	17.761	14.752													3881	17	25.586	19.567
				3685	10	2.570	15.586													3882*	42	2.755	20.212
				3686	16	18.928	15.734													3883	40	4.455	20.755
				3687	17	22.802	15.662													3884	41	5.854	20.220
				3688*	56	0.636	16.019													3885	33	9.888	20.028
				3689	15	2.054	16.224													3886	10	9.979	20.416
				3690	13	4.208	16.318													3887	28	23.493	20.894
				3691	14	18.408	16.046													3888	21	3.204	21.900
				3692	11	22.291	16.670													3889	20	4.451	21.686
				3693	10	3.380	17.418													3890	25	6.716	21.944
				3694	20	3.815	17.688													3891	26	6.875	21.270
				3695	8	9.310	17.814													3892	21	8.835	21.034
				3696*	38	18.065	17.316													3893*	57	23.000	21.860
				3697	23	19.091	17.070													3894*	46	24.416	21.044
				3698	26	19.937	17.774													3895	36	0.879	22.062
				3699	9	22.633	17.505													3896	27	1.910	22.116
				3700	14	23.848	17.301													3897*	42	4.434	22.964
				3701	19	8.238	18.198													3898*	75	22.188	22.359
				3702	9	8.538	18.487													3899	56	22.234	22.364
				3703	14	8.784	18.615													3900	29	23.091	22.286
				3704	11	9.930	18.310													3901	28	2.334	23.183
				3705	10	14.760	18.508													3902	27	4.898	23.340
				3706	21	20.562	18.116													3903	29	10.096	23.932
				3707	15	20.728	18.774													3904*	44	12.068	23.586
				3708	18	21.560	18.800													3905	10	17.578	23.862
				3709	80	25.930	18.180													3906	15	23.026	23.293
				3710	17	0.782	19.704													3907	19	23.266	23.395
				3711	14	5.447	19.715													3908*	46	3.114	24.632
				3712*	38	7.220	19.240													3909	35	7.481	24.054
				3713	25	8.996	19.710													3910	36	8.604	24.889
				3714	22	17.048	19.930													3911	15	9.150	24.440
				3715	17	18.915	19.165													3912	15	11.223	24.191

<b>R.A. 2<sup>h</sup> 20<sup>m</sup></b>			
Plate 1769, 1920 Dec 9.			
Provisional Constants.			
A	B	C	
-01724	+00614	+1553	
D	E	F	
-00657	-01776	-1790	
Mag.=16.2-1.05√d			

No.	d	x	y
3601	11	11.200	0.197
3602	20	19.562	0.654
3603	9	21.327	0.145
3604	28	22.150	0.322
3605	15	24.220	0.560
3606	19	17.880	1.424
3607	23	20.584	1.872
3608	16	6.802	2.891
3609	15	12.828	2.846
3610	27	20.659	2.886
3611	8	23.444	2.789
3612	27	25.321	2.666
3613	11	13.774	3.937
3614	10	17.926	3.820
3615	12	21.788	3.512
3616*	73	24.190	3.580
3617	11	1.464	4.832
3618	13	12.047	4.972
3619*	39	14.336	4.038
3620	19	20.972	4.604
3621	10	22.262	4.574
3622	13	25.705	4.508
3623*	81	3.486	5.204
3624	28	8.080	5.977
3625	22	12.873	5.464
3626	22	13.902	5.516
3627	19	17.412	5.285
3628*	48	24.952	5.767
3629	17	25.052	5.346
3630	53	0.051	6.676
3631	39	3.078	6.124
3632	9	3.293	6.866
3633	10	9.540	6.054
3634	10	11.192	6.172
3635	23	13.090	6.578
3636*	53	13.110	6.522
3637	35	16.906	6.294
3638*	80	18.331	6.530
3639	37	20.063	6.183
3640	12	4.927	7.296
3641	21	6.690	7.780
3642	25	11.016	7.532
3643	16	12.598	7.870

<b>R.A. 2<sup>h</sup> 28<sup>m</sup></b>			
Plate 1764; 1920 Dec. 8.			
Provisional Constants.			
A	B	C	
-01747	+00891	-1404	
D	E	F	
-00885	-01770	-1600	
Mag.=16.2-1.05√d			

No.	d	x	y
3751	27	1.772	0.718
3752	26	10.520	0.670
3753	18	13.130	0.150
3754	33	21.355	0.499
3755	14	3.688	1.321
3756	31	7.635	1.230
3757*	45	14.278	1.854
3758*	50	15.884	1.302
3759	34	2.902	2.808
3760	10	4.410	2.659
3761	12	5.800	2.263
3762	23	10.750	2.852
3763	35	11.870	2.930
3764	12	14.270	2.130
3765	20	15.698	2.685
3766	41	19.759	2.692
3767	21	22.020	2.235



3913	10	13.736	24.364	3993	14	19.437	7.296	4065	26	8.486	18.546	4206*	65	18.348	7.200
3914	24	10.486	25.584	3994	27	2.573	8.775	4066	20	19.670	18.078	4207	23	23.480	7.255
3915	11	13.063	25.930	3995*	40	5.963	8.360	4067	10	22.110	18.950	4208*	54	23.746	7.747
3916	39	15.540	25.668	3996	22	6.942	8.800	4068	39	22.208	18.578	4209	22	11.152	8.690
3917	14	16.596	25.754	3997	17	7.748	8.480	4069	25	22.940	18.320	4210	18	13.276	8.468
3918	18	25.900	25.724	3998*	49	9.166	8.103	4070	10	25.766	18.307	4211	10	13.590	8.685
<b>R.A. 2<sup>h</sup> 36<sup>m</sup></b> Plate 1713; 1920 Oct. 16. <i>Provisional Constants.</i> A      B      C -01734 +01150 -0664 D      E      F -01154 -01783 +1216 $Mag. = 16.0 - 1.05\sqrt{d}$				3999*	41	16.404	8.304	4071	29	0.924	19.404	4212	26	13.650	8.095
				4000	13	21.706	8.614	4072	12	10.545	19.500	4213	28	14.112	8.861
				4001	35	8.616	9.140	4073	30	12.305	19.746	4214	31	14.820	8.102
				4002	13	11.598	9.156	4074	26	13.776	19.748	4215	14	15.327	8.434
				4003*	65	19.346	9.326	4075*	48	16.082	19.798	4216	22	15.500	8.010
				4004	40	19.378	9.381	4076	26	18.160	19.488	4217*	60	16.214	8.636
				4005	31	24.410	9.234	4077	16	19.918	19.750	4218*	61	16.342	8.638
				4006	27	9.562	10.605	4078	32	21.400	19.870	4219	32	19.696	8.146
				4007	17	10.385	10.576	4079	33	22.556	19.441	4220	32	20.899	8.792
				4008	12	12.466	10.737	4080	37	3.724	20.180	4221	14	25.660	8.450
<b>R.A. 2<sup>h</sup> 44<sup>m</sup></b> Plate 1748, 1920 Dec. 4. <i>Provisional Constants</i> A      B      C -01732 +01019 +1133 D      E      F -01019 -01748 +0212 $Mag. = 16.7 - 1.05\sqrt{d}$				4009	14	15.930	10.614	4081	18	3.789	20.000	4222	31	25.662	8.486
				4010	35	18.254	10.725	4082	24	9.932	20.382	4223	32	2.510	9.380
				4011	30	19.759	10.958	4083	38	10.356	20.758	4224	12	5.084	9.803
				4012	18	24.392	10.420	4084	12	19.314	20.250	4225	13	5.670	9.145
				4013	27	24.724	10.024	4085	14	1.240	21.481	4226	16	5.720	9.880
				4014	30	25.583	10.019	4086	29	1.711	21.359	4227	28	5.966	9.112
				4015	90	25.879	10.568	4087*	42	2.635	21.494	4228	37	6.490	9.254
				4016	29	2.568	11.557	4088	14	6.899	21.961	4229	12	8.504	9.386
				4017	33	3.198	11.558	4089	18	17.170	21.330	4230	10	11.942	9.684
				4018	33	4.503	11.926	4090	32	22.913	21.879	4231	17	12.542	9.340
				4019*	68	7.238	11.492	4091*	64	0.422	22.842	4232	23	2.505	10.569
				4020	25	7.409	11.417	4092	47	0.470	22.846	4233	27	2.833	10.170
				4021*	77	10.295	11.062	4093*	50	1.226	22.330	4234	30	3.690	10.156
				4022	17	11.330	11.768	4094	11	1.290	22.804	4235*	101	3.982	10.699
				4023	29	11.336	11.774	4095	29	1.332	22.756	4236	18	6.406	10.760
				4024	13	19.214	11.428	4096	32	8.422	22.427	4237	13	13.208	10.266
				4025	22	20.785	11.098	4097	30	23.352	22.049	4238	18	13.735	10.070
				4026	41	1.985	12.374	4098	25	1.282	23.764	4239	34	13.760	10.326
				4027	32	3.792	12.370	4099	30	1.524	23.864	4240	10	15.087	10.838
				4028	32	15.602	12.280	4100	20	1.934	23.774	4241	19	18.123	10.096
				4029*	44	18.500	12.266	4101	20	3.194	23.021	4242	29	19.530	10.420
				4030	13	18.522	12.458	4102	12	5.930	23.908	4243	12	19.830	10.738
				4031	18	18.895	12.828	4103	20	9.907	23.859	4244	14	1.985	11.930
				4032	39	21.567	12.782	4104*	43	18.238	23.210	4245	28	4.454	11.584
				4033*	40	22.615	12.046	4105	31	19.448	23.858	4246	18	5.208	11.694
				4034	13	23.146	12.266	4106	14	5.286	24.448	4247	10	6.120	11.043
				4035	33	14.312	13.405	4107	12	9.966	24.021	4248	13	6.162	11.590
				4036	26	20.104	13.567	4108	12	12.441	24.810	4249	13	10.120	11.134
				4037	33	22.334	13.524	4109*	48	13.194	24.581	4250	21	12.600	11.705
				4038	12	22.593	13.971	4110	15	13.551	24.525	4251	14	13.112	11.116
				4039	18	3.589	14.357	4111	18	14.080	24.530	4252	10	13.826	11.444
				4040*	40	3.893	14.020	4112	35	17.726	24.269	4253	26	15.000	11.766
				4041	33	9.128	14.020	4113	28	18.390	24.380	4254	16	19.084	11.756
				4042	30	9.132	14.846	4114	40	9.228	25.780	4255	24	19.736	11.433
				4043	23	14.520	14.584	4115	29	22.218	25.886	4256	29	21.760	11.558
				4044	11	14.575	14.149	4116	29	24.210	25.750	4257	10	23.703	11.242
				4045	32	22.026	14.188					4258	21	25.510	11.842
				4046	19	0.358	15.053					4259*	43	0.744	12.212
				4047	31	1.188	15.400					4260	15	1.280	12.429
				4048*	66	2.426	15.306					4261	20	4.946	12.164
				4049	32	5.540	15.280					4262	22	13.704	12.919
				4050	28	9.259	15.028					4263	31	14.659	12.232
				4051	12	17.422	15.822					4264	15	16.138	12.892
				4052	37	21.972	15.335					4265	10	16.370	12.302
				4053	12	23.490	15.609					4266	19	17.273	12.340
				4054	34	23.770	15.788					4267	12	17.938	12.288
				4055	12	6.936	16.372					4268*	48	18.601	12.430
				4056	23	6.946	16.646					4269	29	18.797	12.652
				4057*	65	8.670	16.540					4270	27	19.254	12.660
				4058	13	10.064	16.664					4271	11	20.749	12.666
				4059	22	7.111	17.485					4272	34	21.678	12.372
				4060	25	10.616	17.713					4273	12	22.558	12.706
				4061	19	16.168	17.200					4274	28	23.213	12.260
				4062	29	19.253	17.511					4275	32	0.480	13.696
				4063	33	0.928	18.144					4276	28	5.309	13.902
				4064*	44	7.504	18.362					4277	24	8.010	13.216



4278	18	9.874	13.465	4350	12	9.162	20.747	<div>R.A. 2<sup>h</sup> 52<sup>m</sup></div> <div>Plate 1714 ; 1920 Oct. 16.</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>—01719 +.00582 —.0581</div> <div>D            E            F</div> <div>—00622 —.01735 —.0374</div> <div>Mag.=16.1—1.05√<i>d</i></div>	4506	16	6.724	4.155	4578	12	12.268	11.331
4279	26	10.670	13.432	4351	39	10.752	20.587		4507	12	8.100	4.308	4579	22	14.002	11.744
4280	33	16.631	13.624	4352	18	10.840	20.912		4508	14	11.711	4.840	4580	12	18.500	11.084
4281	30	16.998	13.500	4353	31	11.220	20.390		4509	13	15.314	4.762	4581	22	20.676	11.478
4282	10	18.081	13.680	4354	16	13.096	20.719		4510	19	15.484	4.226	4582	17	21.169	11.086
4283	12	18.580	13.940	4355	16	17.451	20.672		4511	12	15.542	4.529	4583	29	24.354	11.890
4284	31	0.182	14.363	4356	16	19.800	20.477		4512	16	17.266	4.420	4584	12	0.319	12.890
4285	15	0.750	14.139	4357*	60	21.969	20.874		4513	25	17.332	4.380	4585	21	0.972	12.440
4286	26	6.685	14.792	4358*	65	24.652	20.154		4514	22	17.417	4.465	4586	36	5.210	12.030
4287	14	14.040	14.050	4359	19	6.972	21.974		4515	12	17.580	4.089	4587	17	6.523	12.756
4288	32	14.324	14.362	4360	16	8.960	21.942	4516	38	21.672	4.184	4588	12	6.550	12.160	
4289	10	15.507	14.696	4361	27	10.643	21.346	4517	39	22.490	4.012	4589	19	7.269	12.964	
4290	36	18.584	14.677	4362	25	11.616	21.579	4518	20	25.896	4.884	4590	12	7.813	12.099	
4291	14	20.586	14.406	4363	25	13.526	21.504	4519	26	1.885	5.541	4591	11	10.616	12.926	
4292	23	23.044	14.396	4364	19	15.355	21.335	4520	15	5.527	5.526	4592	13	11.676	12.804	
4293	14	23.336	14.064	4365	24	16.667	21.180	4521	15	7.299	5.069	4593	17	19.384	12.237	
4294	16	24.027	14.962	4366	10	16.770	21.916	4522	13	11.915	5.592	4594	15	20.487	12.119	
4295	37	0.140	15.510	4367	12	17.274	21.925	4523	12	13.023	5.020	4595	16	4.877	13.991	
4296	17	1.664	15.767	4368	9	19.463	21.148	4524	13	13.972	5.244	4596	15	10.500	13.726	
4297	36	1.942	15.943	4369	34	1.156	22.042	4525	12	14.198	5.358	4597	12	18.326	13.743	
4298	26	6.252	15.384	4370	32	1.598	22.208	4526	22	15.490	5.110	4598	10	20.638	13.237	
4299	15	9.667	15.600	4371	14	4.832	22.462	4527	26	20.276	5.950	4599	15	21.933	13.376	
4300	25	9.920	15.504	4372	16	5.351	22.022	4528	12	21.335	5.669	4600	12	23.328	13.793	
4301	13	10.114	15.693	4373	10	8.710	22.581	4529	37	0.920	6.924	4601*	58	24.580	13.694	
4302	15	11.066	15.606	4374	15	19.234	22.195	4530	22	2.672	6.080	4602	19	0.821	14.576	
4303*	72	13.270	15.466	4375*	62	20.362	22.479	4531	14	2.968	6.738	4603	16	1.110	14.241	
4304	14	13.849	15.432	4376	30	21.988	22.078	4532	15	7.364	6.682	4604	27	4.560	14.063	
4305	10	14.390	15.480	4377	28	24.193	22.400	4533	16	10.840	6.540	4605	12	8.836	14.676	
4306*	37	14.413	15.613	4378	12	25.480	22.620	4534	14	11.446	6.552	4606	29	9.210	14.902	
4307	32	14.478	15.084	4379	9	2.830	23.252	4535	19	13.029	6.590	4607	13	13.815	14.506	
4308	34	19.572	15.174	4380	26	4.734	23.708	4536	28	16.055	6.542	4608	10	14.236	14.919	
4309	11	20.780	15.535	4381	29	5.740	23.090	4537	21	17.175	6.772	4609	29	15.576	14.994	
4310	18	25.512	15.568	4382	25	6.976	23.923	4538	19	17.737	6.120	4610	15	18.166	14.761	
4311	11	5.334	16.415	4383*	48	18.998	23.992	4539	32	20.490	6.552	4611*	38	20.764	14.159	
4312*	49	5.425	16.176	4384	18	19.028	23.176	4540	14	24.844	6.738	4612*	58	20.825	14.825	
4313	27	6.849	16.487	4385	48	21.847	23.394	4541	28	25.350	6.917	4613	17	22.336	14.018	
4314	25	7.548	16.416	4386	19	25.245	23.600	4542	17	1.196	7.431	4614*	58	22.862	14.984	
4315	16	11.678	16.645	4387	28	12.322	24.176	4543*	48	1.463	7.921	4615	24	24.918	14.610	
4316	10	11.898	16.392	4388	20	16.200	24.643	4544*	48	6.765	7.110	4616*	40	24.930	14.140	
4317	39	13.656	16.804	4389	31	2.500	25.900	4545	36	9.235	7.328	4617	10	0.081	15.181	
4318	34	13.665	16.486	4390	14	4.108	25.890	4546	13	10.450	7.422	4618	14	1.810	15.132	
4319	28	22.300	16.613	4391*	80	7.372	25.498	4547	15	17.436	7.485	4619	18	3.300	15.726	
4320	17	7.414	17.110	4392	10	7.535	25.350	4548	10	19.085	7.885	4620	14	8.725	15.610	
4321	16	7.940	17.784	4393*	92	8.240	25.220	4549	20	20.889	7.512	4621	18	13.056	15.802	
4322	31	12.255	17.190	4394	44	9.267	25.894	4550	10	23.890	7.543	4622	11	14.850	15.206	
4323	24	12.411	17.838	4395	18	10.192	25.757	4551	13	24.966	7.932	4623	24	19.960	15.802	
4324	14	15.134	17.618	4396	28	12.096	25.510	4552	17	3.388	8.606	4624	15	23.092	15.575	
4325*	135	19.932	17.521	4397	40	12.240	25.382	4553	22	3.388	8.644	4625*	40	24.790	15.474	
4326	30	22.205	17.006	4398*	42	15.402	25.280	4554	17	5.152	8.788	4626	20	0.094	16.800	
4327	16	22.318	17.773	4399	19	16.230	25.665	4555	14	10.845	8.500	4627	13	5.800	16.872	
4328	13	25.215	17.492	4400	26	16.274	25.008	4556	14	11.620	8.209	4628*	72	7.082	16.615	
4329	47	0.411	18.750	4401	16	17.231	25.787	4557	33	11.746	8.073	4629*	53	8.254	16.980	
4330	25	1.144	18.485	4402*	60	20.860	25.071	4558	19	15.358	8.305	4630	26	15.026	16.138	
4331	15	3.970	18.440	4403	48	25.404	25.764	4559	11	21.455	8.461	4631	19	18.049	16.034	
4332	20	4.896	18.104					4560	13	21.554	8.330	4632	16	18.382	16.714	
4333	17	5.760	18.751					4561	13	23.010	8.101	4633	12	18.586	16.199	
4334*	44	8.160	18.616					4562	13	23.085	8.608	4634	22	0.002	17.195	
4335	16	10.140	18.520					4563	22	24.202	8.660	4635	16	0.124	17.960	
4336	30	11.784	18.740					4564	12	11.902	9.690	4636	14	3.016	17.654	
4337	28	16.424	18.351					4565	14	13.069	9.655	4637	24	3.842	17.115	
4338	14	21.015	18.632					4566	15	15.884	9.874	4638	19	5.288	17.876	
4339	13	21.890	18.302					4567	13	17.485	9.102	4639	13	10.855	17.050	



4650	18	18.106	18.298	4722	13	7.682	25.341	4791	23	2.217	10.682	4863	28	3.172	20.626	4920	43	17.462	1.650
4651	37	25.190	18.862	4723	20	9.524	25.390	4792	41	4.601	10.410	4864	18	8.577	20.818	4921	16	1.046	2.358
4652	20	25.190	18.464	4724	15	11.845	25.963	4793*	39	7.226	10.950	4865	19	12.417	20.102	4922	28	8.186	2.174
4653	25	4.239	19.056	4725	18	12.800	25.550	4794	21	12.046	10.618	4866	26	12.680	20.457	4923	34	14.053	2.272
4654	17	5.471	19.735	4726	15	14.694	25.478	4795	25	17.588	10.678	4867	35	3.452	21.961	4924	20	18.472	2.054
4655	24	6.148	19.408	4727	26	15.485	25.052	4796	8	19.800	10.706	4868*	72	10.652	21.342	4925	31	23.193	2.872
4656	20	7.484	19.365	4728	27	18.312	25.762	4797	10	20.516	10.932	4869	18	10.686	21.361	4926	26	25.790	2.051
4657*	76	7.900	19.778	4729	18	22.104	25.890	4798*	45	22.926	10.077	4870*	67	12.942	21.864	4927	16	1.150	3.684
4658*	40	8.138	19.939					4799	30	2.132	11.812	4871	10	14.953	21.190	4928	21	4.510	3.937
4659	19	8.266	19.246					4800	21	9.735	11.369	4872	28	17.138	21.910	4929	31	6.902	3.960
4660	24	8.336	19.678					4801	10	10.650	11.476	4873	21	4.422	22.392	4930	13	8.364	3.334
4661	20	10.160	19.023					4802*	42	12.347	11.790	4874	27	7.453	22.869	4931	13	11.978	3.082
4662	17	13.522	19.880					4803	19	13.978	11.872	4875	19	18.858	22.142	4932	18	0.152	4.092
4663	19	15.230	19.360					4804	20	14.973	11.118	4876	35	24.166	22.088	4933	23	3.480	4.450
4664	17	15.278	19.080					4805	11	15.678	11.188	4877	9	24.335	22.009	4934	26	4.258	4.498
4665	22	20.905	19.458					4806	16	19.625	11.178	4878	12	25.128	22.008	4935	26	9.568	4.628
4666	12	25.770	19.130					4807	13	22.238	11.310	4879	23	25.286	22.562	4936	21	10.677	4.310
4667*	60	2.473	20.318					4808	9	5.344	12.253	4880	10	6.921	23.628	4937	30	16.041	4.436
4668	12	5.440	20.749					4809	27	6.033	12.436	4881	20	18.850	23.392	4938	27	19.600	4.930
4669	15	9.814	20.652					4810	15	6.136	12.403	4882	13	3.015	24.206	4939	37	21.450	4.829
4670	14	12.325	20.175					4811	20	15.344	12.109	4883	31	4.927	24.186	4940	38	24.698	4.499
4671	17	13.119	20.155					4812	19	18.440	12.164	4884	35	10.350	24.004	4941	21	1.958	5.344
4672*	62	14.597	20.326					4813*	60	20.232	12.820	4885	21	13.636	24.054	4942	19	3.783	5.218
4673	25	15.849	20.302					4814*	63	2.377	13.613	4886	41	13.674	24.645	4943	17	4.545	5.226
4674	14	16.860	20.884					4815	17	3.909	13.715	4887*	28	24.908	24.448	4944*	48	4.750	5.536
4675	15	17.054	20.421					4816	12	8.758	13.288	4888	14	11.594	25.871	4945	23	5.252	5.250
4676	14	19.322	20.542					4817*	52	11.368	13.748	4889	9	13.627	25.194	4946	11	7.074	5.964
4677	10	19.512	20.741					4818	19	12.989	13.180	4890	12	19.016	25.068	4947*	74	14.102	5.604
4678	36	21.759	20.103					4819	15	13.178	13.339	4891	39	24.172	25.267	4948	12	14.359	5.420
4679	28	25.282	20.716					4820	16	14.950	13.448					4949	24	15.620	5.646
4680	10	4.268	21.897					4821	20	15.067	13.691					4950	11	16.176	5.262
4681	20	8.785	21.135					4822	19	16.128	13.932					4951	23	18.356	5.702
4682	12	12.463	21.786					4823	17	16.447	13.585					4952	19	19.198	5.170
4683	12	16.326	21.485					4824	16	17.458	13.776					4953	36	20.250	5.218
4684	14	19.124	21.565					4825	8	17.990	13.134					4954*	97	20.370	5.434
4685	20	19.560	21.054					4826*	67	0.674	14.924					4955	20	22.849	5.876
4686	12	20.073	21.760					4827	19	2.730	14.524					4956	17	22.952	5.836
4687	32	21.056	21.950					4828*	44	2.734	14.054					4957	22	25.000	5.535
4688	12	24.744	21.322					4829	23	17.446	14.331					4958	16	25.139	5.484
4689	13	25.141	21.557					4830*	45	2.609	15.391					4959	15	25.869	5.913
4690	24	2.041	22.569					4831	45	17.476	15.056					4960	16	1.122	6.154
4691	14	3.330	22.776					4832	12	17.526	15.946					4961	19	7.040	6.874
4692	11	7.157	22.912					4833	20	8.916	16.683					4962	26	7.600	6.535
4693	23	8.451	22.714					4834	32	9.170	16.269					4963*	66	7.739	6.664
4694*	45	10.490	22.465					4835	15	12.268	16.215					4964	14	12.700	6.058
4695	24	10.825	22.520					4836	36	16.472	16.435					4965	27	13.590	6.900
4696	45	14.258	22.346					4837	26	24.795	16.755					4966	16	14.616	6.236
4697	15	19.191	22.079					4838	27	5.938	17.206					4967	26	14.783	6.492
4698	38	25.545	22.056					4839	13	7.104	17.989					4968	21	20.470	6.045
4699	20	3.100	23.760					4840	13	8.106	17.567					4969	26	21.167	6.660
4700	15	8.044	23.622					4841	9	9.623	17.936					4970*	45	7.104	7.700
4701	18	10.212	23.968					4842*	44	12.294	17.930					4971	19	7.192	7.956
4702	12	11.627	23.540					4843	37	18.078	17.286					4972	13	13.637	7.090
4703	14	16.854	23.170					4844	20	22.410	17.896					4973	16	14.844	7.098
4704	25	17.160	23.932					4845	35	23.406	17.210					4974	25	15.644	7.164
4705	17	17.330	23.778					4846	11	3.051	18.374					4975	11	19.552	7.767
4706	12	19.254	23.850					4847	38	3.053	18.773					4976	15	23.235	7.141
4707	40	19.826	23.578					4848	20	9.022	18.712					4977	27	23.247	7.112
4708	14	22.411	23.968					4849	13	10.102	18.620					4978	31	23.923	7.210
4709	19	23.123	23.022					4850	24	10.408	18.810					4979*	48	24.112	7.962
4710	13	24.866	23.084					4851*	34	11.153	18.167					4980	14	1.723	8.169
4711	31	10.666	24.704					4852	10	12.663	18.656					4981	24	4.462	8.476
4712	40	11.416	24.685					4853	32	14.424	18.372					4982	25	10.344	8.044
4713	12	16.030	24.620					4854*	55	15.284	18.386					4983	15	11.689	8.306
4714	24	16.370	24.582					4855	30	17.126	18.225					4984	19	13.260	8.264
4715	12	17.275	24.129					4856	9	19.044	18.118					4985	19	23.586	8.957
4716	12	19.115	24.260					4857	19	20.229	18.394					4986	25	23.644	8.745
4717	13	21.108	24.570					4858	11	16.380	19.472					4987	12	23.879	8.405
4718	24	25.080	24.295					4859	13	16.417	19.468					4988	15	24.455	8.082
4719	42	3.275	25.924					4860	24	17.706	19.720					4989	28	24.806	8.112
4720	13	5.398	25.121					4861*	53	23.107	19.138					4990	18	25.450	9.755
4721	40	5.502	25.466					4862	14	23.867	19.572					4991*	45	1.100	10.376

R.A. 3<sup>h</sup> 0<sup>m</sup>

Plate 1765; 1920 Dec. 8.

Provisional Constants.

A B C  
 -01756 +00592 -2503

D E F  
 -00592 -01781 -2424

Mag.=16.1-1.05√d

No	d	x	y
4751*	53	9.019	0.606
4752*	54	9.915	0.390
4753	9	12.310	0.865
4754	21	16.454	0.026
4755	18	3.313	1.532
4756	27	7.694	1.987
4757	13	12.194	1.021
4758	22	16.932	1.121
4759	10	19.213	1.355
4760*	46	23.012	1.377
4761	38	0.005	2.699
4762	12	2.710	2.999
4763	18	11.330	2.966
4764	19	15.340	2.222
4765	15	18.440	2.177
4766	18	19.762	2.566
4767	25	21.816	2.655
4768	31	0.173	3.966
4769	34	8.270	3.133
4770	14	12.013	3.899
4771	11	20.082	3.700
4772	18	20.486	3.433
4773*	49	6.303	4.277
4774	11	11.814	4.522
4775	17	13.467	4.988
4776	9	18.265	4.722
4777	44	3.895	5.233
4778	13	21.138	5.777
4779	25	3.064	6.822
4780	41	6.342	6.588
4781	19	11.015	6.400
4782*	48	9.323	7.922
4783	20	1.940	8.588
4784	30	13.065	8.888
4785	15	2.280	9.944
4786	28	8.439	9.777
4787	10	12.325	9.577
4788	16	13.007	9.888
4789	17	14.383	9.777
4790	46	16.424	9.888



4992	22	2.145	10.152	5064	10	17.497	17.548	5136	20	20.600	24.289	5228	36	1.142	3.068	5300	13	1.894	8.594
4993	19	2.907	10.684	5065	28	18.223	17.806	5137	12	23.988	24.832	5229	18	4.762	3.731	5301*	48	2.116	8.148
4994	12	4.890	10.096	5066	13	18.306	17.646	5138	15	24.278	24.942	5230	22	5.507	3.090	5302	37	2.816	8.290
4995	11	6.143	10.276	5067	40	22.480	17.322	5139	29	24.890	24.456	5231	36	13.064	3.192	5303	26	11.570	8.418
4996	24	8.391	10.057	5068	28	0.668	18.200	5140	47	2.506	25.554	5232	29	13.230	3.540	5304	35	12.536	8.614
4997	21	13.158	10.780	5069	26	4.670	18.410	5141*	55	6.942	25.350	5233	17	15.350	3.347	5305	33	13.148	8.972
4998	26	18.206	10.996	5070	22	8.130	18.080	5142	11	7.196	25.520	5234	26	16.197	3.364	5306	33	16.412	8.750
4999	15	20.102	10.494	5071	18	9.320	18.090	5143	56	7.442	25.976	5235	31	21.490	3.790	5307	23	18.323	8.288
5000	26	20.214	10.705	5072	18	19.190	18.326	5144	16	11.179	25.360	5236	38	21.825	3.060	5308	24	20.636	8.698
5001	22	20.510	10.500	5073	31	21.787	18.400	5145	35	11.766	25.370	5237	27	23.894	3.206	5309	34	23.646	8.973
5002	13	25.316	10.079	5074	36	25.572	18.120	5146	13	13.129	25.804	5238	40	2.666	4.676	5310*	42	24.500	8.740
5003	23	0.428	11.616	5075*	44	1.373	19.434	5147	31	17.714	25.298	5239	14	7.553	4.332	5311	12	24.946	8.242
5004*	44	6.670	11.916	5076	26	2.143	19.860	5148	16	17.756	25.831	5240	34	8.038	4.735	5312	40	25.074	8.983
5005	13	7.770	11.726	5077	25	6.835	19.040	5149	16	18.336	25.242	5241	18	8.800	4.378	5313	26	1.609	9.150
5006	26	13.500	11.417	5078	14	7.419	19.650	5150	51	19.267	25.851	5242	27	10.529	4.028	5314	10	2.758	9.836
5007	12	15.290	11.478	5079	14	7.936	19.546	5151	19	20.063	25.940	5243	34	13.270	4.992	5315	30	3.480	9.226
5008	37	17.218	11.140	5080	15	10.908	19.271	5152	10	21.024	25.617	5244	31	13.758	4.010	5316	16	4.560	9.935
5009*	47	19.460	11.362	5081	26	12.002	19.047	5153	29	21.410	25.976	5245	19	17.045	4.343	5317	14	8.714	9.428
5010	18	19.706	11.670	5082	28	14.226	19.565	5154	27	21.434	25.530	5246	10	18.328	4.933	5318	33	12.786	9.371
5011	23	24.707	11.946	5083	25	16.235	19.600	5155	22	23.334	25.246	5247	25	18.618	4.762	5319	18	14.376	9.636
5012	21	2.644	12.402	5084	30	17.049	19.888	5156	22	24.530	25.570	5248	15	21.748	4.779	5320*	120	16.234	9.019
5013	15	3.600	12.430	5085	26	17.060	19.878					5249	11	22.411	4.360	5321	12	18.760	9.472
5014	16	10.731	12.196	5086	10	19.576	19.497					5250	28	24.404	4.689	5322	12	19.212	9.992
5015*	115	12.154	12.599	5087	11	19.590	19.367					5251	28	2.982	5.710	5323	22	22.498	9.415
5016	30	14.225	12.955	5088	16	23.522	19.680					5252	21	3.118	5.656	5324	34	24.758	9.931
5017	10	14.410	12.248	5089	24	24.532	19.950					5253	12	3.690	5.556	5325	20	8.890	10.660
5018	15	14.704	12.170	5090	11	3.304	20.675					5254	11	5.159	5.716	5326	11	10.102	10.565
5019	39	17.208	12.224	5091	13	6.785	20.268					5255	24	7.977	5.601	5327	30	11.064	10.504
5020	35	20.355	12.425	5092	17	10.829	20.430					5256	13	10.317	5.842	5328*	43	11.589	10.906
5021	12	20.678	12.807	5093	13	14.640	20.860					5257	30	10.972	5.100	5329	21	11.806	10.700
5022	29	9.665	13.232	5094	20	16.318	20.258					5258	24	12.510	5.544	5330	30	15.790	10.234
5023	33	13.494	13.214	5095	37	17.916	20.358					5259	10	13.968	5.568	5331	10	21.311	10.030
5024	28	14.550	13.021	5096	10	21.379	20.900					5260	30	15.200	5.248	5332	31	21.474	10.445
5025	28	16.175	13.425	5097	30	22.299	20.258					5261	34	16.463	5.556	5333	27	24.359	10.092
5026	12	16.226	13.230	5098	24	24.400	20.306					5262*	44	17.050	5.740	5334	33	6.592	11.044
5027	12	17.532	13.069	5099	10	3.089	21.572					5263	9	17.171	5.683	5335	10	7.604	11.130
5028	12	23.736	13.050	5100	16	3.833	21.506					5264	21	18.197	5.940	5336	40	8.028	11.200
5029	38	25.860	13.236	5101	11	4.526	21.600					5265	39	20.366	5.808	5337	19	8.272	11.624
5030	25	4.984	14.124	5102*	44	9.045	21.828					5266	20	23.580	5.352	5338	17	11.946	11.040
5031	20	6.792	14.513	5103	20	10.944	21.380					5267	13	0.574	6.494	5339	39	13.396	11.232
5032*	53	11.528	14.637	5104	15	11.750	21.001					5268	28	0.836	6.076	5340	21	14.865	11.420
5033	19	12.062	14.150	5105	18	11.873	21.450					5269	22	0.940	6.034	5341	30	17.875	11.746
5034	16	14.510	14.070	5106	40	12.120	21.402					5270	11	1.390	6.763	5342	27	18.582	11.530
5035	11	15.580	14.899	5107	32	12.652	21.762					5271	21	3.856	6.078	5343	18	18.892	11.229
5036*	41	22.276	14.948	5108	11	16.841	21.081					5272	14	6.516	6.726	5344	13	21.923	11.598
5037	28	22.758	14.306	5109	14	17.144	21.919					5273	31	8.378	6.014	5345	11	23.360	11.446
5038	19	23.924	14.920	5110	14	17.592	21.897					5274	31	8.816	6.018	5346	11	2.078	12.905
5039	22	24.306	14.564	5111	28	19.722	21.668					5275	10	10.850	6.360	5347	32	2.764	12.124
5040	11	0.406	15.161	5112	23	20.253	21.830					5276	12	12.602	6.441	5348	32	5.193	12.021
5041	18	4.704	15.280	5113	29	24.300	21.580					5277	16	12.734	6.256	5349	26	7.420	12.258
5042	26	6.450	15.595	5114	24	25.785	21.802					5278	29	14.190	6.607	5350	22	7.568	12.448
5043	14	6.847	15.823	5115	37	2.470	22.375					5279	11	14.374	6.774	5351	16	8.858	12.009
5044	20	7.130	15.846	5116	27	2.638	22.296					5280	31	14.629	6.800	5352	29	11.360	12.615
5045	14	10.222	15.914	5117	28	3.431	22.287					5281	23	19.970	6.403	5353	21	12.063	12.534
5046	18	12.662	15.514	5118	32	3.595	22.837					5282	14	20.188	6.276	5354	41	13.522	12.659
5047	12	15.422	15.981	5119	13	12.660	22.956					5283	32	20.670	6.627	5355	46	14.236	12.508
5048	25	21.393	15.910	5120	11	12.700	22.904					5284	31	25.343	6.320	5356	30	16.209	12.750
5049	10	24.334	15.625	5121	33	16.863	22.229					5285	20	1.236	7.335	5357	25	17.803	12.548
5050	10	24.490	15.980	5122	14	17.730	22.860					5286	32	1.248	7.307	5358	33	21.100	12.579
5051	21	5.927	16.790	5123	24	21.381	22.776					5287	38	1.923	7.399	5359	23	24.312	12.984
5052	27	6.028	16.556	5124	14	23.646	22.778					5288	35	5.199	7.612	5360*	42	3.928	13.400
5053	17	6.345	16.470	5125	27	24.662	22.015					5289	13	7.070	7.106	5361	14	5.256	13.947
5054	31	8.360	16.780	5126	26	5.260	23.374					5290	27	9.758	7.294	5362	22	8.728	13.640
5055	11	13.524	16.508	5127	23	5.880	23.007					5291	29	11.596	7.570	5363	36	9.349	13.525
5056	29	17.452	16.364	5128	28	14.026	23.470					5292	19	13.458	7.116	5364	31	16.130	13.774
5057	33	1.658	17.507	5129	19	21.562	23.265					5293	24	16.027	7.740	5365	23	16.922	13.012
5058	16	2.906	17.424	5130	18	24.727	23.921					5294	10	16.248	7.320	5366	34	20.050	13.632
5059	30	3.040	17.035	5131	19	25.483	23.234					5295	17	17.748	7.080	5367	13	20.621	13.020
5060	23	5.240	17.518	5132*	40	3.238	24.730					5296	28	20.008	7.887				



5372	10	5.938	14.835	5444	10	16.382	18.208	5516	32	18.830	24.122	5580	13	20.178	4.461	5652	9	8.295	15.973
5373	30	7.964	14.922	5445*	75	17.910	18.152	5517*	50	23.760	24.800	5581	34	6.826	5.148	5653	12	9.050	15.742
5374	12	9.066	14.677	5446	24	18.366	18.999	5518	29	1.548	25.440	5582	33	8.813	5.037	5654	17	10.012	15.986
5375	12	11.748	14.970	5447*	43	19.243	18.012	5519	13	2.198	25.016	5583	17	12.499	5.302	5655*	36	11.658	15.900
5376	29	12.040	14.468	5448	21	1.670	19.872	5520	14	2.490	25.126	5584	13	14.198	5.152	5656	13	12.054	15.616
5377	21	12.056	14.874	5449	19	8.395	19.386	5521	27	2.750	25.751	5585	32	17.367	5.561	5657	10	12.638	15.580
5378	16	12.103	14.010	5450	23	13.594	19.358	5522	24	8.190	25.091	5586	18	3.042	6.022	5658	14	13.112	15.486
5379	17	12.808	14.726	5451	16	15.141	19.940	5523	27	8.646	25.669	5587	15	3.764	6.454	5659	15	13.436	15.846
5380	12	14.860	14.128	5452	31	17.320	19.469	5524	15	9.979	25.964	5588	13	12.385	6.908	5660	20	14.280	15.183
5381	33	15.500	14.792	5453	28	18.362	19.318	5525	26	10.025	25.840	5589	18	14.842	6.210	5661	26	17.436	15.602
5382	27	20.700	14.704	5454	30	18.385	19.800	5526	18	14.731	25.667	5590	32	20.340	6.865	5662	31	19.545	15.228
5383	18	21.180	14.444	5455	31	19.076	19.143	5527	24	15.110	25.334	5591	13	22.620	6.833	5663	26	25.188	15.813
5384	24	23.225	14.022	5456	37	23.712	19.674	5528	22	19.504	25.776	5592	11	2.969	7.312	5664	15	9.891	16.907
5385*	43	0.366	15.154	5457	23	23.785	19.582	5529	40	21.215	25.508	5593	11	4.334	7.667	5665	12	16.813	16.100
5386	25	1.015	15.120	5458	21	25.916	19.098	5530	13	21.764	25.488	5594	17	9.988	7.652	5666	19	18.424	16.758
5387	11	2.436	15.809	5459	35	0.452	20.462	5531	31	21.881	25.692	5595*	37	11.284	7.396	5667	20	18.896	16.392
5388	32	8.468	15.985	5460	29	2.556	20.488	5532	11	22.200	25.774	5596	23	1.374	8.696	5668	11	20.298	16.152
5389	20	8.500	15.988	5461	33	2.681	20.131	5533	32	24.524	25.340	5597*	40	2.222	8.454	5669	17	21.070	16.316
5390	32	8.654	15.022	5462	33	7.364	20.524	5534	14	25.948	25.750	5598	38	2.802	8.688	5670	15	22.442	16.706
5391	37	8.800	15.915	5463	40	7.474	20.561					5599	44	4.756	8.761	5671	9	23.260	16.971
5392	17	9.277	15.053	5464	24	11.022	20.689					5600	12	6.668	8.382	5672	9	23.273	16.522
5393	12	9.290	15.332	5465	38	11.790	20.022					5601	28	9.654	8.754	5673	15	23.792	16.781
5394	43	11.647	15.274	5466	14	13.472	20.680					5602	28	18.682	8.136	5674	16	1.084	17.457
5395	17	14.256	15.210	5467	29	14.105	20.660					5603*	48	22.202	8.974	5675*	65	3.810	17.494
5396	22	15.029	15.334	5468	26	14.374	20.717					5604	17	22.534	8.772	5676	19	6.146	17.640
5397	11	16.880	15.090	5469	26	21.447	20.875					5605	10	2.102	9.806	5677	15	21.084	17.683
5398	39	16.940	15.629	5470	28	22.763	20.789					5606	19	2.497	9.640	5678	29	21.454	17.198
5399	13	17.574	15.848	5471	37	2.467	21.763					5607	15	7.776	9.842	5679	18	25.014	17.296
5400	10	18.316	15.412	5472	30	3.958	21.968					5608	26	9.830	9.752	5680	12	25.158	17.094
5401	11	2.595	16.161	5473	28	6.427	21.012					5609	11	11.068	9.986	5681	9	3.765	18.792
5402	19	4.007	16.160	5474	24	7.384	21.250					5610	14	12.270	9.717	5682	28	3.926	18.288
5403	34	7.594	16.256	5475	21	13.842	21.562					5611	12	12.956	9.328	5683	14	5.226	18.881
5404	35	11.780	16.056	5476	25	15.332	21.594					5612	22	20.963	9.168	5684	18	15.717	18.382
5405	12	13.327	16.104	5477	12	1.830	22.968					5613	20	23.257	9.180	5685	9	17.087	18.853
5406	34	15.003	16.600	5478	30	2.836	22.194					5614	9	9.914	10.703	5686	24	1.566	19.393
5407	38	15.834	16.659	5479	13	2.900	22.626					5615	32	14.348	10.049	5687	26	13.165	19.030
5408	29	16.942	16.883	5480	13	3.128	22.693					5616	17	16.378	10.809	5688*	54	22.720	19.358
5409	30	17.476	16.800	5481	24	5.274	22.540					5617	12	20.938	10.574	5689	16	23.374	19.817
5410	28	18.357	16.540	5482	40	5.932	22.220					5618	20	21.118	10.722	5690*	50	15.060	20.865
5411	20	19.441	16.702	5483	35	6.540	22.748					5619	10	5.522	11.144	5691	25	19.356	20.942
5412	26	20.629	16.155	5484	14	8.039	22.542					5620	15	8.138	11.398	5692	38	21.888	20.238
5413	33	21.554	16.400	5485	24	8.754	22.640					5621	18	8.671	11.866	5693	28	23.713	20.027
5414	11	22.839	16.519	5486	17	9.862	22.253					5622	34	12.329	11.360	5694*	46	10.902	21.219
5415*	66	23.011	16.128	5487*	45	15.807	22.390					5623	10	14.313	11.428	5695	20	14.420	21.460
5416	42	0.596	17.526	5488	20	15.822	22.590					5624	12	19.007	11.795	5696*	57	16.046	21.443
5417	25	4.310	17.534	5489	20	16.256	22.925					5625	8	19.802	11.739	5697	16	19.955	21.698
5418	44	4.500	17.691	5490	33	19.038	22.724					5626*	31	23.628	11.782	5698	12	1.917	22.998
5419	31	5.340	17.556	5491	22	19.737	22.996					5627	17	2.076	12.866	5699	14	2.528	22.618
5420	26	11.839	17.620	5492	13	20.180	22.820					5628	14	7.406	12.096	5700	23	4.189	22.003
5421	15	12.171	17.816	5493	28	21.265	22.922					5629	34	8.172	12.156	5701	12	6.404	22.132
5422	32	15.714	17.855	5494	32	24.632	22.909					5630	14	12.699	12.353	5702	33	8.220	22.922
5423	10	16.535	17.634	5495	13	24.748	22.230					5631	15	14.227	12.360	5703	9	15.185	22.372
5424	25	18.826	17.980	5496	12	25.100	22.260					5632	11	17.062	12.766	5704	25	23.932	22.754
5425	29	19.888	17.518	5497	25	3.674	23.404					5633	33	24.235	12.072	5705	9	24.392	22.778
5426	12	20.782	17.439	5498	23	4.696	23.000					5634	29	5.230	13.144	5706	10	6.652	23.200
5427	33	23.252	17.730	5499	12	4.890	23.727					5635*	39	6.669	13.933	5707	18	13.798	23.517
5428	67	25.986	17.803	5500	30	4.942	23.690					5636	34	7.166	13.677	5708	9	16.810	23.700
5429	40	3.698	18.287	5501	28	6.154	23.188					5637	24	7.724	13.804	5709	13	22.358	23.722
5430	20	4.250	18.290	5502	24	8.089	23.822					5638	9	15.826	13.580	5710	15	25.212	23.674
5431	29	4.356	18.520	5503	33	8.942	23.710					5639	21	17.302	13.301	5711*	49	1.672	24.514
5432	44	4.392	18.705	5504	35	9.327	23.490					5640	21	19.662	13.367	5712*	48	8.196	24.438
5433	41	6.064	18.406	5505*	45	14.900	23.545					5641*	46	25.174	13.850	5713	23	11.998	24.050
5434	37	6.762	18.999	5506	31	21.210	23.448					5642	14	25.363	13.270	5714	20	12.382	24.436
5435	24	8.716	18.478	5507*	42	21.242	23.310					5643	14	5.817	14.846	5715	10	13.448	24.056
5436	31	10.504	18.584	5508	31	24.015	23.281					5644	24	8.922	14.862	5716	20	20.186	24.472
5437	15	12.059	18.450	5509	11	2.500	24.603					5645	25	9.794	14.173	5717	17	2.450	25.048
5438	30	13.110	18.474	5510	21	2.926	24.098					5646*	30	13.128	14.608	5718	13	7.206	25.497
5439	21	13.994	18.370	5511	33	3.095	24.630					5647	12	22.982	14.724	5719	12	25.259	25.606
5440	26	14.132	18.679	5512	35	14.726	24.851					5648	16	23.708	14.818				



R.A. 3 <sup>h</sup> 32 <sup>m</sup>				R.A. 3 <sup>h</sup> 40 <sup>m</sup>			
Plate 1777; 1921 Jan. 2.				Plate 1778; 1921 Jan. 2.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-0.1737	+0.0255	+0.0929		-0.1759	+0.0822	+0.107	
D	E	F		D	E	F	
-0.0273	-0.1759	-0.1740		-0.0796	-0.1760	-0.3048	
Mag. = 16.0 - 1.05√d				Mag. = 16.3 - 1.05√d			
No.	d	z	y	No.	d	z	y
5751	17	2.804	0.674	5951	21	5.894	0.185
5752	30	6.207	0.236	5952	22	8.930	0.577
5753	32	6.631	0.798	5953	20	13.340	0.280
5754	10	7.176	0.834	5954	8	15.925	0.732
5755	25	15.087	0.418	5955	31	17.484	0.780
5756	15	16.832	0.821	5956	19	19.400	0.000
5757	35	0.290	1.839	5957	49	22.763	0.188
5758	11	4.025	1.968	5958	27	5.385	1.078
5759	11	8.636	1.804	5959	9	6.370	1.208
5760	34	10.728	1.200	5960	10	8.248	1.398
5761	13	14.915	1.182	5961	11	11.846	1.464
5762	15	15.686	1.161	5962	8	7.600	2.382
5763	20	16.096	1.544	5963	17	10.943	2.267
5764	36	16.948	1.760	5964	9	14.220	2.918
5765	18	1.800	2.434	5965	33	21.930	2.458
5766	34	8.665	2.819	5966	37	23.118	2.017
5767	19	14.296	2.818	5967	19	1.018	3.850
5768	23	14.778	2.950	5968	17	9.179	3.762
5769	30	17.334	2.830	5969	23	11.434	3.943
5770	10	6.100	3.152	5970	22	14.536	3.280
5771	23	6.328	3.496				
5772	10	17.030	3.259				
5773	26	23.204	3.914				
5774	32	7.683	4.091				
5775	42	11.010	4.932				
5776	12	16.936	4.120				
5777	10	17.579	4.349				
5778	42	5.202	5.630				
5779	16	6.276	5.686				
5780	30	7.518	5.963				
5781	11	8.868	5.968				
5782	15	10.558	5.678				
5783	44	21.282	5.910				
5784	36	5.938	6.604				
5785	27	8.491	6.386				
5786	23	8.587	6.888				
5787	53	11.374	6.489				
5788	15	11.766	6.410				
5789	13	15.558	6.319				
5790	33	19.705	6.693				
5791	21	22.008	6.052				
5792	15	0.730	7.037				
5793	14	9.922	7.130				
5794	21	11.676	7.131				
5795	18	15.652	7.185				
5796	49	19.429	7.166				
5797	20	0.671	8.978				
5798	23	7.521	8.825				
5799	16	9.746	8.032				
5800	20	10.844	8.842				
5801	33	16.620	8.056				
5802	32	16.991	8.038				
5803	16	25.546	8.630				
5804	45	0.339	9.184				
5805	26	1.398	9.376				
5806	51	6.026	9.130	5878	35	19.231	20.138
5807	27	6.169	9.262	5879	10	19.676	20.345
5808	25	7.631	9.482	5880	23	21.705	20.880
5809	15	8.016	9.192	5881	41	24.059	20.849
5810	13	8.388	9.172	5882	14	7.864	21.962
5811	21	8.925	9.286	5883	34	11.635	21.700
5812	14	9.564	9.674	5884	26	12.042	21.066
5813	13	19.582	9.526	5885	29	15.300	21.860
5814	13	21.010	9.592	5886	29	2.254	22.942
5815	18	21.065	9.996	5887	12	2.712	22.960
5816	15	21.530	9.468	5888	10	2.776	22.916
5817	12	21.588	9.950	5889	10	13.351	22.684
5818	10	4.259	10.282	5890	12	18.090	22.820
5819	35	16.444	10.161	5891	18	21.615	22.909
5820	33	16.482	10.159	5892	20	23.744	22.290
5821	23	22.880	10.870	5893	16	0.692	23.930
5822	33	1.803	11.974	5894	25	3.546	23.846
5823	11	6.602	11.314	5895	10	10.469	23.566
5824	47	21.032	11.554	5896	12	12.564	23.565
5825	33	2.414	12.258	5897	14	3.358	24.417
5826	27	4.392	12.106	5898	160	5.739	24.025
5827	26	12.217	12.004	5899	13	9.190	24.724
5828	23	13.062	12.354	5900	29	12.220	24.734
5829	34	13.118	12.220	5901	26	18.386	24.304
5830	13	15.619	12.170	5902	14	3.373	25.338
5831	34	23.160	12.013	5903	21	3.620	25.776
5832	22	3.560	13.438	5904	45	14.953	25.768
5833	29	4.746	13.238	5905	31	20.269	25.060
5834	22	12.516	13.647				
5835	34	18.432	13.471				
5836	23	20.198	13.931				
5837	11	1.194	14.926				
5838	41	3.374	14.024				
5839	16	10.174	14.070				
5840	36	21.750	14.594				
5841	34	22.664	14.634				
5842	16	1.924	15.010				
5843	31	3.418	15.986				
5844	11	13.035	15.706				
5845	40	15.682	15.232				
5846	16	16.466	15.918				
5847	10	17.901	15.551				
5848	11	1.511	16.718				
5849	22	2.032	16.970				
5850	32	5.555	16.338				
5851	11	6.530	16.952				
5852	24	8.803	16.624				
5853	14	12.586	16.921				
5854	20	18.128	16.895				
5855	10	1.505	17.168				
5856	25	3.261	17.471				
5857	20	3.405	17.266				
5858	22	9.863	17.665				
5859	31	10.582	17.187				
5860	19	13.524	17.051				
5861	19	23.060	17.993				
5862	18	25.312	17.944				
5863	26	10.261	18.290				
5864	48	0.990	19.564				
5865	12	7.898	19.788				
5866	12	9.789	19.671				
5867	36	0.174	20.452				
5868	20	1.656	20.012				
5869	31	1.996	20.220				
5870	10	4.064	20.066				
5871	33	7.733	20.138				
5872	24	10.477	20.517				
5873	20	13.359	20.093				
5874	19	14.332	20.398				
5875	11	14.394	20.462				
5876	18	17.664	20.579				
5877	10	17.766	20.240				



6115	26	11.816	24.599	6189	18	12.376	3.494	6261	14	25.766	7.362	6333	38	4.054	13.871	6405	38	11.744	18.898
6116	10	13.232	24.226	6190	30	13.265	3.756	6262	16	5.844	8.494	6334	15	5.050	13.405	6406	62	12.932	18.233
6117	18	14.210	24.278	6191	28	13.355	3.582	6263	16	10.440	8.851	6335	38	5.384	13.376	6407	26	13.110	18.406
6118	19	16.480	24.699	6192	30	14.062	3.065	6264	22	14.669	8.306	6336	30	11.670	13.755	6408	37	13.135	18.964
6119	15	24.922	24.398	6193	44	14.684	3.316	6265	17	19.044	8.845	6337	23	15.036	13.772	6409	22	14.322	18.204
6120	16	10.739	25.958	6194	13	16.644	3.472	6266	34	20.524	8.033	6338	16	15.746	13.052	6410	38	17.955	18.482
6121	13	11.037	25.456	6195	16	16.822	3.766	6267	16	22.084	8.690	6339	14	16.239	13.978	6411	24	18.586	18.206
6122	14	12.104	25.222	6196	48	19.472	3.916	6268	42	24.070	8.206	6340	20	18.816	13.986	6412	38	20.416	18.505
6123	19	20.674	25.806	6197	26	20.056	3.805	6269	15	25.345	8.832	6341	14	19.264	13.166	6413	37	20.646	18.970
6124	22	23.374	25.202	6198	38	21.372	3.155	6270	50	1.560	9.505	6342	18	21.686	13.826	6414	17	22.534	18.056
				6199	16	25.178	3.626	6271	20	2.966	9.302	6343	14	21.830	13.666	6415	17	1.144	19.266
				6200	35	4.026	4.404	6272	15	4.866	9.375	6344	53	23.271	13.785	6416	23	2.042	19.826
				6201	14	6.680	4.514	6273	59	5.340	9.594	6345	13	23.596	13.730	6417	48	2.914	19.954
				6202	35	7.502	4.596	6274	38	5.524	9.474	6346	31	23.996	13.168	6418	26	3.432	19.416
				6203	24	9.796	4.746	6275	26	9.576	9.724	6347	34	0.767	14.156	6419	15	3.469	19.800
				6204	21	10.788	4.970	6276	34	9.805	9.054	6348	24	1.835	14.784	6420	13	4.398	19.046
				6205	24	11.457	4.205	6277	19	10.417	9.160	6349	13	3.334	14.716	6421	17	6.347	19.542
				6206	15	11.484	4.876	6278	16	14.515	9.832	6350	38	3.406	14.224	6422	19	7.210	19.226
				6207	11	12.463	4.824	6279	36	15.972	9.855	6351	56	4.300	14.904	6423	20	7.292	19.844
				6208	34	17.229	4.896	6280	12	17.144	9.635	6352	14	4.810	14.354	6424	92	10.361	19.566
				6209	12	23.747	4.898	6281	17	18.508	9.555	6353	19	7.521	14.854	6425	21	16.493	19.583
				6210	40	0.334	5.706	6282	76	18.706	9.798	6354	58	13.346	14.154	6426	23	17.235	19.352
				6211	32	1.374	5.806	6283	15	19.504	9.434	6355	21	14.580	14.694	6427	50	20.324	19.553
				6212	16	1.374	5.516	6284	24	23.832	9.460	6356	15	20.382	14.537	6428	15	22.471	19.324
				6213	16	2.536	5.748	6285	18	0.585	10.536	6357	26	20.974	14.600	6429	24	24.050	19.255
				6214	42	5.563	5.202	6286	22	3.581	10.014	6358	22	21.108	14.811	6430	15	24.282	19.595
				6215	34	6.309	5.066	6287	19	5.508	10.170	6359	32	22.843	14.398	6431	38	0.156	20.206
				6216	38	7.194	5.917	6288	26	7.225	10.704	6360	14	25.165	14.694	6432	17	0.450	20.774
				6217	20	9.090	5.464	6289	15	15.024	10.305	6361	24	25.222	14.306	6433	15	4.752	20.992
				6218	34	9.785	5.664	6290	30	16.884	10.564	6362	14	1.475	15.126	6434	14	5.229	20.560
				6219	18	11.024	5.212	6291	20	17.744	10.345	6363	92	2.244	15.264	6435	37	6.004	20.126
				6220	42	13.016	5.914	6292	80	19.275	10.116	6364	28	3.376	15.076	6436	14	7.669	20.428
				6221	18	13.200	5.936	6293	15	19.551	10.868	6365	18	5.076	15.892	6437	20	8.054	20.514
				6222	37	14.030	5.118	6294	37	20.128	10.785	6366	28	12.476	15.264	6438	17	9.074	20.289
				6223	16	14.290	5.644	6295	36	25.156	10.786	6367	38	15.050	15.536	6439	16	11.756	20.844
				6224	17	17.118	5.029	6296	32	25.939	10.284	6368	17	19.844	15.925	6440	32	14.512	20.769
				6225	16	18.050	5.246	6297	28	0.744	11.704	6369	24	20.056	15.713	6441	32	14.598	20.276
				6226	36	18.712	5.252	6298	40	1.836	11.125	6370	16	22.194	15.632	6442	38	15.044	20.168
				6227	14	19.805	5.484	6299	16	2.088	11.512	6371	38	24.285	15.324	6443	27	17.377	20.116
				6228	16	21.602	5.254	6300	26	2.749	11.224	6372	31	0.376	16.754	6444	20	18.655	20.596
				6229	12	21.782	5.136	6301	15	2.820	11.809	6373	21	1.652	16.154	6445	26	5.078	21.656
				6230	35	21.812	5.834	6302	36	4.924	11.252	6374	34	6.950	16.402	6446	38	9.136	21.826
				6231	14	22.532	5.232	6303	12	5.814	11.716	6375	20	9.406	16.204	6447	18	10.275	21.476
				6232	34	24.725	5.392	6304	20	8.616	11.035	6376	32	10.750	16.596	6448	32	14.106	21.810
				6233	32	7.230	6.513	6305	26	11.379	11.961	6377	62	15.780	16.360	6449	15	17.869	21.984
				6234	30	7.719	6.710	6306	37	13.402	11.434	6378	15	17.716	16.700	6450	20	22.059	21.916
				6235	37	8.256	6.092	6307	29	20.649	11.714	6379	19	18.186	16.456	6451	24	24.163	21.434
				6236	16	8.542	6.284	6308	14	22.313	11.646	6380	36	19.086	16.416	6452	30	24.816	21.102
				6237	14	8.638	6.374	6309	30	22.496	11.083	6381	25	21.318	16.044	6453	19	0.290	22.406
				6238	22	10.300	6.960	6310	15	0.275	12.515	6382	19	21.601	16.645	6454	38	0.326	22.505
				6239	14	10.503	6.443	6311	25	0.786	12.125	6383	25	24.311	16.258	6455	31	3.486	22.464
				6240	16	11.262	6.499	6312	18	1.258	12.006	6384	16	1.300	17.322	6456	17	7.284	22.698
				6241	17	11.619	6.655	6313	26	4.791	12.524	6385	22	1.600	17.026	6457	19	16.436	22.946
				6242	17	13.565	6.364	6314	12	5.922	12.228	6386	17	5.674	17.606	6458	18	20.104	22.011
				6243	53	15.252	6.895	6315	59	7.704	12.214	6387	16	7.742	17.604	6459	61	20.962	22.878
				6244	16	18.476	6.484	6316	22	10.098	12.326	6388	23	8.120	17.221	6460	17	21.311	22.338
				6245	17	25.593	6.166	6317	28	12.090	12.218	6389	15	8.424	17.114	6461	37	22.729	22.994
				6246	17	5.372	7.056	6318	17	12.671	12.508	6390	14	9.394	17.354	6462	40	23.817	22.182
				6247	30	7.076	7.404	6319	18	13.906	12.444	6391	16	9.666	17.592	6463	14	24.926	22.686
				6248	16	8.498	7.656	6320	17	17.664	12.404	6392	28	9.994	17.274	6464	66	1.156	23.234
				6249	17	8.592	7.944	6321	16	17.866	12.374	6393	18	11.072	17.958	6465	21	2.034	23.897
				6250	17	9.852	7.934	6322	58	18.900	12.431	6394	14	11.076	17.275	6466	21	3.674	23.452
				6251	19	12.041	7.014	6323	34	20.552	12.626	6395	29	12.218	17.996	6467	24	4.044	23.406
				6252	28	12.706	7.805	6324	40	21.258	12.736	6396	15	12.395	17.720	6468	22	7.204	23.965
				6253	37	14.686	7.388	6325	24	21.586	12.055	6397	16	12.564	17.995	6469	26	10.064	23.985
				6254															



6477	37	23.251	23.463	6528*	114	21 114	5.543	6600	16	5.160	14.951	6672	21	17.557	23.664	6733*	56	0.312	6.717
6478	26	23.562	23.466	6529*	79	21.666	5.710	6601	22	7.785	14.420	6673*	58	17.783	23.350	6734*	29	2.850	6.275
6479	22	24.562	23.124	6530*	42	22.760	5.160	6602	10	8.502	14.425	6674	16	19.300	23.777	6735	38	7.766	6.821
6480	20	0.144	24.514	6531	31	3.624	6.975	6603	11	14.967	14.709	6675	44	21.982	23.890	6736	20	11.223	6.668
6481	38	1.713	24.404	6532	15	11.538	6.291	6604	14	22.466	14.621	6676*	63	22.265	23.508	6737	9	11.480	6.251
6482	37	2.840	24.866	6533	23	15.616	6.436	6605	10	23.378	14.825	6677	40	4.230	24.972	6738*	38	12.504	6.062
6483	34	7.442	24.476	6534	22	15.780	6.692	6606	39	2.420	15.112	6678	29	7.994	24.712	6739	18	13.860	6.983
6484	21	8.168	24.520	6535	15	16.399	6.554	6607	28	7.462	15.600	6679	8	9.807	24.562	6740	13	15.069	6.508
6485	21	17.552	24.550	6536*	64	22.249	6.440	6608	35	8.828	15.583	6680	9	12.566	24.864	6741	21	15.445	6.688
6486	24	17.949	24.916	6537	29	24.785	6.043	6609	30	11.948	15.340	6681	32	13.822	24.336	6742	23	16.250	6.192
6487	44	18.786	24.766	6538	27	0.044	7.142	6610*	39	12.274	15.266	6682	31	15.832	24.307	6743	21	18.530	6.421
6488	44	18.906	24.852	6539*	56	5.382	7.234	6611*	67	17.098	15.925	6683	30	22.248	24.707	6744	10	21.874	6.478
6489	23	24.179	24.700	6540	35	9.500	7.184	6612	15	19.214	15.540	6684	10	24.020	24.956	6745	25	25.510	6.262
6490	42	1.299	25.691	6541*	70	10.096	7.892	6613	30	19.500	15.845	6685	12	11.623	25.024	6746	12	7.998	7.118
6491	39	5.506	25.768	6542	11	11.713	7.452	6614	33	8.340	16.145	6686	13	16.835	25.196	6747*	53	14.922	7.101
6492	30	9.201	25.861	6543*	58	14.145	7.860	6615	11	9.143	16.886	6687	30	17.458	25.008	6748	42	16.107	7.762
6493	33	11.706	25.698	6544	14	14.780	7.434	6616	9	18.370	16.241					6749	22	17.345	7.614
6494	16	12.842	25.916	6545	17	15.372	7.428	6617	15	23.636	16.460					6750	10	18.516	7.650
6495	54	20.276	25.609	6546*	43	2.128	8.000	6618*	43	24.066	16.651					6751*	65	21.762	7.776
6496	58	21.666	25.986	6547	10	4.200	8.069	6619*	40	3.820	17.747					6752*	110	21.856	7.955
6497	46	25.985	25.213	6548	37	4.270	8.758	6620	10	8.054	17.583					6753	27	23.990	7.620
				6549	35	5.582	8.492	6621	13	8.915	17.274					6754	41	24.392	7.641
				6550	13	12.614	8.328	6622	27	8.973	17.644					6755	12	25.392	7.717
				6551	12	19.699	8.619	6623	13	9.521	17.110					6756	12	1.322	8.358
				6552	14	23.224	8.102	6624	34	13.640	17.428					6757*	81	2.731	8.560
				6553	33	23.270	8.980	6625*	46	14.992	17.394					6758	24	8.000	8.616
				6554*	86	24.640	8.324	6626	14	16.972	17.344					6759	11	10.172	8.976
				6555	26	4.569	9.232	6627	27	18.443	17.571					6760*	48	15.542	8.730
				6556	10	7.890	9.844	6628	13	21.330	17.932					6761	19	17.008	8.382
				6557	21	9.826	9.670	6629	20	21.984	17.640					6762	10	21.321	8.952
				6558	29	13.212	9.764	6630	29	22.560	17.350					6763	19	22.320	8.826
				6559	31	15.980	9.226	6631	30	5.374	18.626					6764	10	22.546	8.372
				6560	17	16.285	9.767	6632	27	5.559	18.195					6765	34	25.337	8.110
				6561*	67	16.870	9.494	6633	11	12.049	18.800					6766	32	1.378	9.235
				6562	38	17.300	9.114	6634	33	23.630	18.998					6767	33	6.604	9.891
				6563	12	18.845	9.100	6635	13	2.231	19.047					6768	27	7.922	9.984
				6564	33	18.858	9.948	6636	44	12.490	19.558					6769*	43	8.600	9.583
				6565*	62	19.725	9.830	6637*	49	15.272	19.589					6770*	50	13.070	9.681
				6566*	65	20.396	9.800	6638	41	15.342	19.656					6771	18	15.553	9.731
				6567	25	0.587	10.890	6639	17	15.516	19.410					6772	38	16.671	9.368
				6568	29	3.242	10.566	6640*	55	23.584	19.726					6773	8	22.434	9.438
				6569	28	4.020	10.056	6641	13	23.709	19.058					6774*	38	23.166	9.433
				6570	12	5.688	10.714	6642	26	25.812	19.620					6775	11	24.312	9.172
				6571	13	7.559	10.632	6643	18	3.020	20.881					6776	11	25.780	9.947
				6572	19	12.702	10.178	6644	10	6.801	20.585					6777	18	1.250	10.984
				6573	23	23.150	10.726	6645	30	7.625	20.695					6778	21	2.418	10.246
				6574	21	24.292	10.006	6646	25	12.582	20.718					6779	21	3.623	10.400
				6575	23	25.493	10.177	6647	19	20.226	20.226					6780*	87	5.806	10.037
				6576	16	8.862	11.800	6648*	72	20.820	20.578					6781	24	6.460	10.224
				6577	24	11.946	11.632	6649	34	2.032	21.973					6782	33	10.886	10.224
				6578	17	12.472	11.582	6650	22	4.359	21.480					6783	26	12.753	10.350
				6579	16	19.324	11.666	6651*	50	6.494	21.811					6784	10	22.283	10.478
				6580*	46	23.611	11.038	6652	28	7.861	21.404					6785	14	22.748	10.890
				6581*	52	1.380	12.164	6653	25	11.536	21.844					6786	15	23.649	10.156
				6582	28	2.110	12.961	6654	28	13.835	21.348					6787*	43	1.750	11.292
				6583	18	3.496	12.504	6655	32	14.316	21.925					6788	16	6.510	11.466
				6584	19	7.662	12.080	6656*	56	14.516	21.544					6789	23	7.224	11.800
				6585*	60	14.268	12.329	6657	10	15.402	21.611					6790	23	14.514	11.610
				6586	12	16.130	12.820	6658	14	15.730	21.162					6791	37	14.564	11.144
				6587	13	17.888	12.499	6659	12	16.296	21.085					6792	13	25.838	11.561
				6588*	66	19.372	12.400	6660	20	21.749	21.610					6793	12	0.154	12.730
				6589	30	19.606	12.063	6661*	58	24.337	21.099					6794	25	0.850	12.366
				6590	15	21.985	12.454	6662	30	0.954	22.796					6795	19	0.948	12.587
				6591	28	22.690	12.100	6663	11	2.790	22.907					6796	12	5.998	12.705
				6592	23	22.786	12.323	6664	39	5.930	22.036					6797	31	9.057	12.767
				6593*	47	1.387	13.584	6665	19	9.900	22.648					6798	22	9.802	12.404
				6594	27	13.658	13.023	6666*	45	10.245	22.964					6799	27	12.038	12.159
				6595	19	17.045	13.160	6667	16	13.138	22.674					6800	25	12.994	12.607
				6596	12	22.978	13.700	6668	13	18.474	22.982					6801	10	14.838	12.632
				6597*	46	25.500	13.612	6669	27	1.480	23.260					6802	17	15.150	12.827
				6598	28	0.970	14.204	6670	13	1.793	23.263					6803*	51	15.178	12.134
				6599	15	3.348	14.086	6671	21	12.832	23.125					6804	14	15.480	12.669

R.A. 3<sup>h</sup> 56<sup>m</sup>

Plate 1771 ; 1920 Dec. 9.

Provisional Constants.

A	B	C
-01755	+00371	+0123

D	E	F
-00401	-01772	-3260

Mag.=16.9-1.05√d

R.A. 4<sup>h</sup> 4<sup>m</sup>

Plate 1779 ; 1921 Jan. 2.

Provisional Constants.

A	B	C
-01762	+00731	+1516

D	E	F
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6805	27	15.960	12.570	6877	8	6.798	21.871	6968*	43	2.616	2.814	7040	29	16.500	8.178	7112	10	11.245	13.808
6806	31	18.295	12.420	6878*	45	14.265	21.863	6969*	60	3.216	2.051	7041	24	17.025	8.626	7113	16	12.782	13.612
6807	20	20.630	12.398	6879	27	14.707	21.478	6970	10	11.058	2.105	7042	23	17.340	8.752	7114	18	14.673	13.088
6808	38	21.946	12.337	6880*	36	17.666	21.492	6971	12	14.520	2.818	7043	32	20.728	8.984	7115	33	15.020	13.606
6809	34	22.186	12.575	6881	36	8.113	22.787	6972	31	15.086	2.822	7044	27	25.127	8.071	7116	14	15.676	13.731
6810	13	23.288	12.462	6882	17	17.638	22.422	6973*	47	16.523	2.134	7045	11	0.076	9.544	7117	30	17.883	13.893
6811	10	1.160	13.959	6883	17	23.288	22.128	6974	16	20.432	2.289	7046*	39	0.802	9.526	7118	9	19.634	13.315
6812*	42	3.682	13.834	6884*	52	0.604	23.777	6975	21	22.256	2.012	7047	10	0.960	9.126	7119	18	22.232	13.468
6813*	35	8.074	13.813	6885*	60	8.686	23.640	6976	20	22.268	2.214	7048	18	1.943	9.248	7120	8	23.533	13.185
6814	11	8.496	13.268	6886	21	13.146	23.061	6977	15	0.712	3.920	7049	12	2.430	9.308	7121	19	24.550	13.020
6815	10	15.022	13.914	6887	19	24.429	23.182	6978	18	4.752	3.689	7050	9	2.476	9.144	7122	22	4.193	14.519
6816	19	18.912	13.576	6888	36	25.541	23.557	6979	23	7.657	3.152	7051	24	9.912	9.968	7123	8	4.698	14.553
6817	27	4.464	14.033	6889	38	0.330	24.167	6980*	46	9.304	3.511	7052	11	14.228	9.780	7124	10	5.532	14.568
6818	30	9.036	14.622	6890	28	0.612	24.980	6981	29	13.376	3.019	7053	9	15.126	9.568	7125	13	5.640	14.274
6819	20	9.166	14.162	6891	16	6.986	24.397	6982	10	13.382	3.478	7054	8	16.283	9.122	7126	11	8.900	14.618
6820	18	14.028	14.040	6892	18	7.810	24.560	6983	20	14.113	3.026	7055	18	17.939	9.788	7127	38	9.321	14.929
6821	23	14.423	14.309	6893	26	8.279	24.686	6984	16	16.207	3.722	7056	20	20.420	9.606	7128	9	16.040	14.866
6822	39	14.723	14.782	6894	28	8.854	24.812	6985	30	18.166	3.786	7057	29	24.032	9.860	7129	16	21.062	14.987
6823	20	21.432	14.576	6895	10	17.640	24.058	6986	25	19.709	3.948	7058	13	25.265	9.434	7130	11	24.644	14.097
6824	10	4.834	15.676	6896	12	20.166	24.135	6987	16	23.113	3.437	7059	18	0.406	10.990	7131	8	0.502	15.207
6825	30	8.972	15.662	6897	11	23.507	24.218	6988	20	23.416	3.892	7060	20	1.300	10.244	7132	9	2.361	15.030
6826	26	11.552	15.298	6898	8	2.390	25.199	6989	32	3.406	4.886	7061	20	3.425	10.005	7133	27	11.136	15.700
6827	11	16.036	15.958	6899	45	7.670	25.802	6990	22	9.475	4.286	7062	10	3.880	10.240	7134	19	12.020	15.264
6828	34	19.691	15.352	6900	8	7.774	25.910	6991	23	9.487	4.292	7063	8	7.522	10.215	7135	22	13.206	15.268
6829	13	1.864	16.710	6901	28	8.279	25.260	6992	16	12.446	4.356	7064	9	7.589	10.286	7136	10	14.749	15.482
6830*	41	2.296	16.897	6902	24	8.634	25.208	6993	21	16.152	4.730	7065	11	8.668	10.222	7137*	45	15.308	15.498
6831	26	9.360	16.668	6903	8	10.125	25.609	6994	30	16.157	4.718	7066	15	12.445	10.423	7138	15	15.826	15.322
6832	31	16.190	16.238	6904	51	14.667	25.512	6995	16	18.206	4.956	7067	25	12.672	10.248	7139	38	0.111	16.916
6833	32	16.792	16.148	6905	10	22.590	25.772	6996	23	19.802	4.874	7068	27	13.438	10.044	7140	8	0.851	16.024
6834	11	18.016	16.088	6906	16	24.577	25.650	6997	26	20.159	4.337	7069	42	17.340	10.482	7141	15	3.986	16.036
6835	13	19.697	16.100	6907	28	25.176	25.070	6998	20	24.600	4.986	7070	10	21.880	10.628	7142*	42	6.603	16.436
6836	9	19.824	16.208					6999	9	1.742	5.323	7071	9	22.246	10.660	7143	9	6.941	16.282
6837	36	22.376	16.814					7000	25	3.461	5.882	7072	10	23.075	10.483	7144	18	7.449	16.116
6838	14	0.234	17.914					7001	11	5.120	5.655	7073	14	23.150	10.600	7145	35	9.455	16.274
6839	25	0.802	17.617					7002	22	5.447	5.465	7074*	122	24.515	10.949	7146	25	9.802	16.904
6840	26	5.746	17.326					7003	28	10.568	5.245	7075	38	24.870	10.152	7147	26	10.386	16.754
6841	27	9.952	17.194					7004	19	12.118	5.060	7076	8	0.199	11.540	7148	27	10.896	16.032
6842*	53	13.027	17.180					7005	15	14.118	5.760	7077	23	3.506	11.617	7149	9	11.774	16.718
6843	9	14.548	17.936					7006	9	18.492	5.591	7078	18	6.347	11.122	7150	15	16.802	16.364
6844	11	16.074	17.978					7007	14	18.538	5.502	7079	10	7.814	11.314	7151*	38	18.890	16.762
6845	22	20.280	17.726					7008	20	25.340	5.402	7080	9	9.650	11.144	7152	9	19.182	16.358
6846	27	21.435	17.896					7009	11	25.987	5.478	7081	21	10.718	11.185	7153	16	22.136	16.180
6847	41	21.510	17.591					7010	31	2.260	6.056	7082	12	12.564	11.004	7154	17	25.932	16.676
6848	24	22.977	17.870					7011	8	3.090	6.027	7083*	44	13.102	11.968	7155	30	0.728	17.964
6849	15	25.839	17.742					7012	32	3.107	6.326	7084	29	14.787	11.394	7156	10	2.156	17.173
6850	37	8.381	18.034					7013	10	6.112	6.058	7085	24	17.221	11.048	7157	24	3.588	17.791
6851	19	13.986	18.158					7014	10	9.318	6.524	7086*	70	17.956	11.932	7158	34	4.579	17.151
6852	17	15.362	18.492					7015	23	10.800	6.496	7087	15	19.880	11.513	7159	18	6.726	17.832
6853	33	22.708	18.454					7016	31	16.084	6.088	7088*	42	22.452	11.728	7160	24	7.136	17.552
6854	20	22.780	18.337					7017	39	21.566	6.806	7089	9	24.457	11.990	7161	18	9.336	17.002
6855	25	23.883	18.746					7018	12	22.234	6.894	7090	18	25.958	11.384	7162	29	9.756	17.020
6856	10	24.569	18.954					7019	32	1.604	7.704	7091	37	0.166	12.676	7163	23	11.506	17.230
6857*	49	1.861	19.979					7020	42	2.005	7.717	7092	18	0.966	12.553	7164	16	11.820	17.868
6858	32	1.900	19.248					7021	20	3.008	7.782	7093	18	3.707	12.199	7165*	39	12.146	17.818
6859	11	1.982	19.304					7022	15	12.306	7.169	7094	22	6.087	12.452	7166	18	13.150	17.988
6860	21	4.092	19.834					7023	10	12.867	7.483	7095*	48	7.391	12.226	7167	8	15.190	17.672
6861	24	7.758	19.479					7024	12	13.175	7.678	7096	35	9.428	12.928	7168	19	18.334	17.467
6862	21	8.478	19.334					7025	32	15.278	7.462	7097	26	15.380	12.084	7169	32	20.345	17.472
6863	29	8.715	19.874					7026	17	16.064	7.920	7098*	47	18.488	12.314	7170	20	21.064	17.418
6864	8	12.158	19.262					7027	20	16.145	7.326	7099	19	18.814	12.210	7171*	45	24.067	17.784
6865	19	17.836	19.896					7028	14	18.288	7.842	7100	14	19.082	12.695	7172	32	0.466	18.551
6866*	52	25.466	19.854					7029	8	18.554	7.294	7101	12	19.512	12.887	7173	22	0.537	18.433
6867	25	4.732	20.321					7030*	40	18.954	7.320	7102	8	23.258	12.362	7174	28	1.646	18.828
6868	18	5.918	20.192					7031	17	21.208	7.818	7103	29	6.170	13.654	7175	9	2.226	18.298
6869	11	11.307	20.742					7032	19	21.430	7.382	7104	12	6.762	13.889	7176	10	2.240	18.180
6870	20	12.823	20.292					7033	8	22.808	7.408	7105*	41	7.358	13.396	7177	23	4.108	18.696
6871	8	16.158	20.658					7034	12	0.170	8.476	7106	8	7.950	13.282	7178	24	4.548	18.072
6872*	56	22.343	20.446					7035	35	2.957	8.172	7107	25	8.524	13.834	7179			



7184*	49	16.314	18.264	7256	10	0.454	25.867	7335	30	4.435	4.686	7407	19	19.286	11.326	7479*	33	19.765	19.925
7185	14	16.668	18.409	7257	11	2.266	25.606	7336	41	5.175	4.550	7408	12	19.829	11.590	7480	10	25.679	19.240
7186	11	21.212	18.366	7258	21	2.438	25.723	7337	11	5.930	4.338	7409	10	1.390	12.520	7481	37	2.069	20.212
7187	18	25.644	18.291	7259	32	3.025	25.134	7338	19	8.200	4.959	7410	10	2.586	12.129	7482	13	3.704	20.242
7188	63	25.811	18.117	7260	22	8.860	25.251	7339	20	11.720	4.272	7411*	40	8.779	12.336	7483	15	6.230	20.965
7189	8	1.726	19.950	7261	8	9.878	25.780	7340*	49	12.075	4.700	7412	11	11.054	12.052	7484	10	6.240	20.474
7190	15	2.336	19.027	7262	10	10.652	25.039	7341	9	12.145	4.165	7413	12	13.940	12.957	7485	27	11.138	20.354
7191*	46	3.240	19.914	7263	26	12.748	25.040	7342	25	13.446	4.326	7414	25	15.614	12.209	7486	31	13.783	20.844
7192	11	3.537	19.222	7264	17	15.766	25.339	7343	16	20.906	4.957	7415	11	19.062	12.815	7487	37	15.248	20.079
7193	32	4.966	19.020	7265	31	22.804	25.758	7344	15	25.116	4.037	7416	17	0.382	13.642	7488	30	17.484	20.725
7194	22	8.910	19.268	7266	39	22.984	25.444	7345	28	2.626	5.122	7417	10	1.679	13.340	7489	15	22.150	20.238
7195	22	15.857	19.438	7267	15	23.386	25.884	7346	28	3.372	5.528	7418	24	2.693	13.158	7490*	80	22.838	20.880
7196	29	19.462	19.871	7268	10	24.995	25.311	7347	20	4.020	5.594	7419	15	5.381	13.926	7491	32	2.133	21.595
7197	10	20.402	19.930	7269	12	25.754	25.475	7348*	46	4.208	5.705	7420	19	7.350	13.402	7492	10	2.482	21.585
7198	37	23.200	19.463					7349	34	5.708	5.452	7421	23	15.594	13.720	7493	23	5.648	21.786
7199*	56	23.994	19.164					7350	14	18.179	5.802	7422	12	15.772	13.320	7494	20	5.840	21.905
7200	31	24.176	19.030					7351	12	18.608	5.638	7423	25	20.488	13.422	7495	18	6.114	21.748
7201*	56	0.124	20.547					7352*	33	22.928	5.862	7424	17	21.476	13.185	7496	10	6.236	21.655
7202	10	2.520	20.822					7353	12	6.220	6.658	7425	36	25.115	13.027	7497	14	9.033	21.256
7203	35	7.958	20.784					7354	17	7.161	6.344	7426	26	25.615	13.539	7498	15	10.604	21.645
7204	21	9.624	20.144					7355*	61	8.372	6.278	7427	12	2.804	14.232	7499	15	11.154	21.504
7205	29	10.416	20.576					7356	31	9.322	6.995	7428	10	2.828	14.404	7500	9	11.313	21.381
7206	13	10.638	20.110					7357*	60	10.686	6.584	7429	20	4.829	14.163	7501	17	11.594	21.761
7207	11	13.260	20.158					7358	14	12.880	6.308	7430*	44	4.942	14.321	7502	31	12.394	21.698
7208	15	13.448	20.458					7359	14	16.926	6.815	7431	27	7.889	14.310	7503	22	13.852	21.286
7209	13	14.903	20.821					7360	22	18.796	6.556	7432	26	8.280	14.778	7504	13	14.602	21.397
7210	31	17.823	20.637					7361	29	25.465	6.630	7433	23	12.836	14.389	7505	12	15.208	21.931
7211	42	23.824	20.062					7362	12	0.288	7.068	7434	13	13.416	14.414	7506*	40	18.610	21.000
7212	22	4.596	21.540					7363	14	9.719	7.532	7435	23	14.714	14.286	7507	34	21.036	21.850
7213	8	6.335	21.161					7364	18	11.074	7.133	7436	28	16.075	14.199	7508	29	22.372	21.315
7214	15	6.397	21.068					7365	34	14.118	7.354	7437*	48	16.150	14.666	7509	18	24.675	21.359
7215	10	8.621	21.758					7366	34	18.294	7.100	7438*	43	18.636	14.546	7510	29	1.401	22.240
7216	26	9.538	21.452					7367	12	20.645	7.676	7439	25	4.194	15.398	7511	24	1.855	22.088
7217	26	9.825	21.642					7368*	47	21.187	7.570	7440	10	6.429	15.383	7512	39	4.735	22.620
7218	21	10.974	21.968					7369	12	24.156	7.442	7441	13	11.033	15.643	7513	20	5.266	22.460
7219	29	19.722	21.904					7370	31	3.198	8.200	7442	23	14.404	15.022	7514*	36	9.050	22.245
7220	14	19.734	21.762					7371	31	4.884	8.186	7443	10	14.532	15.020	7515	17	9.262	22.834
7221	18	23.580	21.934					7372	29	5.576	8.689	7444	18	0.326	16.354	7516*	40	9.784	22.424
7222	32	23.865	21.445					7373	14	7.483	8.182	7445	24	4.130	16.792	7517	29	10.140	22.605
7223	8	24.214	21.441					7374	29	12.959	8.622	7446	35	4.560	16.202	7518	24	10.668	22.946
7224	20	1.097	22.216					7375	27	13.202	8.217	7447	20	9.564	16.758	7519	28	11.697	22.223
7225	19	6.758	22.591					7376	15	16.476	8.486	7448	29	13.969	16.750	7520	9	17.903	22.280
7226	14	6.888	22.562					7377	26	20.384	8.086	7449*	35	17.330	16.426	7521	28	19.188	22.613
7227	14	10.400	22.310					7378	29	23.867	8.134	7450	12	24.100	16.456	7522	40	19.269	22.832
7228	22	11.706	22.264					7379	19	3.356	9.561	7451	23	25.766	16.820	7523	17	20.418	22.850
7229	11	11.950	22.502					7380	27	4.827	9.130	7452*	42	2.274	17.930	7524	23	20.835	22.824
7230	15	12.614	22.700					7381	25	5.346	9.527	7453	20	7.464	17.914	7525	34	21.244	22.456
7231	8	14.055	22.518					7382	10	7.091	9.343	7454	33	7.877	17.373	7526	32	22.077	22.414
7232	23	17.902	22.994					7383	22	11.132	9.109	7455	11	8.556	17.105	7527	13	25.126	22.828
7233	18	19.821	22.290					7384	22	13.360	9.187	7456	10	9.744	17.822	7528	34	0.504	23.478
7234	20	21.696	22.602					7385	14	20.682	9.411	7457	13	12.470	17.265	7529	25	11.995	23.864
7235	27	23.123	22.080					7386	9	0.355	10.832	7458*	46	14.810	17.565	7530*	37	13.290	23.808
7236	24	2.252	23.254					7387	10	1.180	10.643	7459	31	15.732	17.822	7531	15	15.531	23.144
7237	41	3.370	23.615					7388	13	1.256	10.759	7460	29	21.642	17.684	7532	10	19.469	23.428
7238*	44	5.346	23.994					7389	27	2.128	10.007	7461	33	23.456	17.006	7533	22	22.902	23.372
7239	17	8.302	23.118					7390	38	2.968	10.286	7462	28	24.146	17.959	7534	12	1.252	24.946
7240	20	9.231	23.409					7391	12	7.178	10.310	7463	24	24.272	17.151	7535*	66	6.064	24.350
7241	20	9.780	23.990					7392	10	7.711	10.598	7464	19	24.402	17.837	7536	20	7.190	24.724
7242	16	10.025	23.869					7393	13	10.620	10.768	7465	25	3.865	18.414	7537	25	13.234	24.184
7243	28	12.004	23.188					7394*	40	11.832	10.280	7466	14	3.886	18.862	7538	16	15.213	24.382
7244*	40	12.044	23.186					7395*	40	13.776	10.701	7467*	54	4.016	18.236	7539	12	15.748	24.932
7245	13	13.094	23.179					7396	16	16.116	10.172	7468	14	7.560	18.936	7540	12	17.448	24.019
7246	26	15.774	23.816					7397	38	18.288	10.447	7469	31	8.344	18.512	7541*	40	18.411	24.782
7247	8	21.910	23.890					7398	33	25.610	10.560	7470*	36	16.850	18.721	7542	13	20.762	24.982
7248	36	22.208	23.304					7399*	40	0.571	11.897	7471	39	1.435	19.622	7543	34	23.793	24.190
7249	16	1.346	24.301					7400*	134	2.614	11.088	7472*	52	2.220	19.310	7544	30	1.138	25.924
7250	15	4.729	24.965					7401	11	3.544	11.092	7473	34	2.406	19.174	7545	38	1.309	25.606
7251	10	5.385	24.439					7402	26	4.076	11.502	7474	19	7.170	19.313	7546	19	3.325	25.446
7252	17	6.414	24.717					7403	10	5.676	11.700	7475	10	8.215	19.200	7547	23	4.083	25.596
7253	30	16.350	24.112					7404	15	11.979	11.629	7476	17						



7551	10	16.218	25.900	7644	31	18.602	2.161	7716	21	19.412	6.240	7788*	42	6.172	12.300	7860	19	11.988	16.040
7552	22	18.297	25.554	7645	13	19.508	2.214	7717	16	21.156	6.234	7789	14	7.290	12.356	7861	12	14.387	16.994
7553	10	22.104	25.108	7646*	80	20.014	2.374	7718	10	21.201	6.288	7790	31	10.390	12.147	7862*	45	14.920	16.890
7554	10	24.416	25.094	7647	16	20.470	2.702	7719	43	23.138	6.720	7791	11	10.917	12.977	7863	12	15.058	16.063
7555	23	25.072	25.007	7648	22	20.970	2.174	7720	21	2.037	7.938	7792	21	14.756	12.795	7864*	44	15.452	16.700
				7649	25	2.313	3.509	7721	32	3.338	7.110	7793	12	15.940	12.531	7865	12	18.028	16.342
				7650	33	2.750	3.208	7722	11	6.074	7.286	7794	13	17.440	12.112	7866	11	21.526	16.426
				7651	29	4.476	3.408	7723	23	9.222	7.917	7795	11	17.966	12.844	7867	14	21.808	16.434
				7652	28	6.510	3.507	7724	22	9.410	7.513	7796*	66	20.338	12.052	7868	12	21.833	16.278
				7653	10	9.058	3.158	7725	17	10.450	7.674	7797*	52	21.160	12.270	7869	34	22.432	16.110
				7654	38	10.876	3.512	7726	12	11.102	7.294	7798	10	23.923	12.870	7870	22	24.500	16.134
				7655	11	13.543	3.988	7727	25	11.938	7.444	7799	46	24.262	12.332	7871	18	24.882	16.994
				7656	15	15.162	3.102	7728	13	12.668	7.222	7800	13	24.414	12.194	7872	17	25.638	16.758
				7657	37	16.795	3.084	7729	23	18.270	7.698	7801	42	3.052	13.512	7873	15	25.766	16.880
				7658	22	18.068	3.672	7730	39	18.761	7.045	7802	18	3.250	13.058	7874	38	1.438	17.510
				7659	35	19.368	3.220	7731	37	21.937	7.358	7803	37	4.252	13.343	7875	30	2.254	17.646
				7660	22	20.572	3.440	7732	10	22.704	7.394	7804	29	5.660	13.090	7876	28	3.746	17.298
				7661	23	21.064	3.988	7733	12	24.526	7.770	7805*	47	6.801	13.522	7877	19	5.106	17.228
				7662*	52	21.082	3.981	7734	11	25.930	7.810	7806*	81	8.734	13.274	7878	16	8.144	17.322
				7663*	58	22.336	3.433	7735	17	0.596	8.832	7807	11	9.612	13.348	7879	14	8.956	17.557
				7664	35	23.161	3.876	7736	18	1.270	8.670	7808	32	10.908	13.996	7880	26	9.004	17.045
				7665	14	23.222	3.788	7737	38	1.755	8.632	7809	16	11.180	13.988	7881	33	9.872	17.362
				7666	16	23.240	3.771	7738	12	5.747	8.160	7810	10	12.310	13.180	7882*	45	11.734	17.911
				7667	12	25.007	3.328	7739	12	6.342	8.261	7811*	48	15.430	13.920	7883	30	15.268	17.492
				7668	12	2.895	4.180	7740	16	7.646	8.064	7812	31	17.920	13.090	7884	16	15.902	17.992
				7669	25	2.966	4.522	7741	23	13.040	8.516	7813	23	19.092	13.172	7885	17	16.484	17.052
				7670	29	3.211	4.192	7742	19	13.119	8.260	7814	10	21.042	13.792	7886	23	18.148	17.248
				7671	24	5.828	4.920	7743	10	17.822	8.148	7815	13	22.984	13.640	7887	15	20.499	17.050
				7672	28	8.475	4.967	7744	12	18.868	8.216	7816	22	23.644	13.486	7888	25	22.810	17.060
				7673	22	11.284	4.951	7745	25	20.852	8.128	7817	25	23.920	13.132	7889	18	25.842	17.314
				7674	22	12.920	4.494	7746	28	25.090	8.516	7818	28	23.944	13.434	7890	13	1.470	18.542
				7675	26	13.000	4.373	7747	29	25.143	8.967	7819	26	23.948	13.378	7891	36	2.136	18.454
				7676	27	14.630	4.548	7748	13	25.776	8.598	7820	18	24.787	13.608	7892	20	2.270	18.790
				7677	23	14.684	4.362	7749	12	2.242	9.841	7821	24	25.786	13.901	7893	29	2.391	18.329
				7678	30	17.088	4.611	7750	13	2.849	9.344	7822	30	25.926	13.006	7894	21	2.650	18.488
				7679	25	17.430	4.050	7751*	46	4.569	9.062	7823	29	3.560	14.020	7895	21	2.696	18.360
				7680	20	22.875	4.144	7752	16	4.928	9.528	7824	11	7.877	14.048	7896	17	3.412	18.178
				7681	21	23.276	4.022	7753	26	6.493	9.772	7825*	50	7.932	14.030	7897	15	3.546	18.348
				7682*	46	25.440	4.432	7754	14	8.169	9.238	7826	24	10.608	14.428	7898	19	7.258	18.818
				7683	12	0.793	5.863	7755	19	10.380	9.626	7827	15	12.119	14.407	7899	12	8.973	18.658
				7684	13	8.188	5.664	7756	18	11.132	9.252	7828	23	14.926	14.658	7900*	42	13.347	18.950
				7685	20	8.758	5.619	7757	29	12.136	9.019	7829	12	19.246	14.304	7901	21	13.518	18.708
				7686	18	9.617	5.695	7758	14	13.316	9.374	7830	10	20.359	14.276	7902	24	14.798	18.942
				7687	35	10.381	5.590	7759	16	14.878	9.286	7831	28	20.532	14.055	7903	26	18.204	18.001
				7688	12	12.398	5.788	7760	44	16.800	9.096	7832	31	20.862	14.266	7904	32	19.014	18.424
				7689	15	12.572	5.700	7761	30	18.588	9.310	7833	28	21.078	14.295	7905	19	19.776	18.942
				7690	18	13.017	5.308	7762	13	5.550	10.586	7834	17	21.204	14.648	7906	20	21.712	18.958
				7691	31	15.443	5.934	7763	13	6.506	10.853	7835	27	22.162	14.753	7907	11	22.550	18.039
				7692	31	16.938	5.738	7764	39	9.574	10.328	7836	30	24.092	14.211	7908*	57	23.747	18.786
				7693	25	17.796	5.052	7765	18	9.878	10.813	7837	40	24.900	14.502	7909	38	24.848	18.348
				7694	30	18.088	5.393	7766	18	12.222	10.891	7838	22	4.371	15.859	7910	20	25.900	18.550
				7695	19	19.990	5.840	7767	17	13.848	10.950	7839*	45	5.276	15.215	7911	19	3.684	19.719
				7696	19	20.670	5.152	7768	12	17.682	10.662	7840	25	6.503	15.110	7912	24	7.694	19.024
				7697	21	21.536	5.220	7769	10	18.466	10.706	7841	14	7.445	15.570	7913*	86	8.694	19.692
				7698	18	21.662	5.996	7770	26	19.667	10.528	7842	12	7.490	15.718	7914	14	8.885	19.854
				7699	20	21.774	5.248	7771	22	24.812	10.758	7843*	49	11.144	15.313	7915	13	9.488	19.050
				7700*	54	22.514	5.302	7772	14	0.082	11.228	7844	40	14.330	15.122	7916	32	10.627	19.868
				7701	21	25.238	5.830	7773	11	2.592	11.612	7845	27	14.335	15.902	7917	12	10.634	19.355
				7702*	39	0.792	6.369	7774	34	3.524	11.038	7846	28	14.706	15.182	7918	20	11.483	19.760
				7703	13	1.061	6.968	7775	44	6.424	11.351	7847	16	16.008	15.503	7919	12	11.634	19.134
				7704	11	1.705	6.868	7776	21	8.309	11.631	7848	10	19.905	15.116	7920	22	14.156	19.760
				7705	11	3.406	6.819	7777	47	9.811	11.536	7849	11	22.162	15.870	7921	25	15.360	19.069
				7706	32	9.400	6.240	7778	16	10.032	11.054	7850	10	23.222	15.736	7922*	46	15.656	19.572
				7707	13	9.860	6.566	7779*	76	11.848	11.662	7851	40	24.958	15.916	7923	29	16.30	



7932	18	24.933	19.740	8004	33	23.378	23.668	8067	11	20.710	0.174	8139	13	9.014	5.468	8211	16	15.645	10.294
7933	21	0.166	20.754	8005	32	24.365	23.600	8068	15	23.200	0.187	8140	30	9.624	5.476	8212	16	16.885	10.956
7934	16	2.728	20.769	8006	33	25.714	23.148	8069	21	0.486	1.434	8141	23	9.842	5.724	8213	27	18.806	10.465
7935	11	2.943	20.305	8007	41	1.848	24.690	8070	32	0.701	1.357	8142	38	11.114	5.070	8214	34	22.112	10.860
7936	29	4.074	20.395	8008	11	6.562	24.602	8071	39	4.053	1.668	8143	28	12.015	5.670	8215	15	23.248	10.358
7937	19	4.410	20.693	8009	11	8.256	24.814	8072	14	5.906	1.603	8144	17	13.716	5.042	8216	16	25.036	10.876
7938*	60	4.754	20.433	8010	22	8.681	24.583	8073	16	8.172	1.764	8145	14	14.915	5.435	8217*	138	6.397	11.210
7939	12	4.781	20.290	8011	40	9.024	24.441	8074	25	8.784	1.405	8146	14	15.120	5.673	8218	33	6.750	11.592
7940	23	5.040	20.636	8012	23	12.298	24.654	8075	24	10.395	1.696	8147	24	21.329	5.270	8219	13	9.188	11.744
7941	35	6.168	20.196	8013	34	12.396	24.078	8076	38	10.941	1.130	8148	16	22.919	5.942	8220	12	10.072	11.126
7942	29	9.030	20.381	8014	20	13.414	24.376	8077*	44	11.300	1.704	8149	40	1.158	6.634	8221	26	10.478	11.214
7943	34	9.332	20.828	8015	21	13.896	24.686	8078	11	11.539	1.625	8150	14	7.756	6.904	8222	26	12.341	11.164
7944	20	10.498	20.476	8016	12	15.930	24.402	8079	30	11.574	1.552	8151	12	8.214	6.646	8223	12	12.654	11.145
7945*	41	11.798	20.042	8017	18	16.257	24.063	8080	39	15.252	1.346	8152	17	9.847	6.434	8224	18	13.342	11.382
7946	18	12.992	20.742	8018	34	17.340	24.284	8081	16	18.651	1.574	8153	38	10.954	6.292	8225	22	17.826	11.717
7947	14	13.450	20.340	8019	11	18.266	24.350	8082	36	18.885	1.756	8154	13	11.166	6.964	8226	22	17.835	11.738
7948	11	13.514	20.550	8020	21	0.176	25.625	8083	23	21.964	1.766	8155	15	12.740	6.845	8227	16	19.158	11.062
7949	14	13.626	20.980	8021	12	2.402	25.699	8084	40	22.166	1.406	8156	14	13.618	6.800	8228	38	21.466	11.174
7950	12	15.200	20.346	8022	23	2.485	25.588	8085	33	23.856	1.472	8157	14	13.772	6.046	8229*	52	22.045	11.589
7951	35	15.447	20.525	8023	32	3.138	25.492	8086	13	5.652	2.244	8158	11	22.529	6.406	8230	20	23.115	11.168
7952	35	15.460	20.652	8024	12	5.756	25.362	8087	38	6.825	2.252	8159	17	25.085	6.320	8231	44	2.294	12.244
7953	17	15.506	20.174	8025	14	7.700	25.292	8088	12	7.260	2.689	8160*	54	25.542	6.219	8232	14	2.450	12.104
7954	12	25.806	20.584	8026	38	8.289	25.411	8089	12	7.674	2.532	8161	13	25.914	6.770	8233	23	3.960	12.915
7955	12	0.050	21.131	8027	11	13.012	25.713	8090	19	9.014	2.304	8162	24	4.136	7.435	8234	12	5.607	12.976
7956	33	0.398	21.830	8028	40	15.182	25.022	8091	14	11.185	2.416	8163	13	5.914	7.645	8235	14	6.431	12.196
7957*	86	0.848	21.388	8029	34	16.503	25.292	8092	13	11.744	2.594	8164	23	6.308	7.164	8236	14	11.576	12.990
7958	27	2.703	21.848	8030	16	19.062	25.372	8093	13	14.065	2.576	8165	14	7.822	7.616	8237	38	11.604	12.316
7959	15	3.502	21.068	8031	11	19.772	25.604	8094	24	18.344	2.974	8166	17	8.288	7.776	8238	37	11.610	12.516
7960	11	3.893	21.972	8032	42	19.876	25.941	8095	21	23.182	2.826	8167	17	10.394	7.834	8239	13	12.526	12.848
7961	32	4.283	21.914	8033	18	23.666	25.121	8096	19	23.319	2.848	8168	15	11.050	7.565	8240	33	17.492	12.804
7962	40	5.190	21.678	8034	23	24.017	25.510	8097	16	25.200	2.430	8169	32	13.371	7.867	8241	11	18.874	12.085
7963	38	5.663	21.338	8035	36	25.538	25.293	8098*	64	0.349	3.346	8170	19	19.384	7.488	8242	14	20.250	12.946
7964	26	6.259	21.418					8099	34	1.180	3.786	8171	24	22.002	7.046	8243	16	21.608	12.952
7965	20	8.734	21.632					8100	14	1.244	3.697	8172*	68	22.389	7.142	8244*	70	21.937	12.370
7966	20	13.230	21.957					8101	22	1.294	3.934	8173	11	25.212	7.250	8245	32	23.834	12.884
7967	25	13.710	21.730					8102	15	3.026	3.235	8174	21	3.116	8.426	8246	23	23.983	12.598
7968*	38	15.662	21.945					8103	12	3.196	3.334	8175	23	3.172	8.874	8247	19	24.017	12.144
7969	13	18.380	21.302					8104	15	3.710	3.934	8176	14	3.806	8.506	8248	13	1.018	13.556
7970	13	18.754	21.956					8105	16	4.262	3.114	8177	18	4.320	8.742	8249	22	1.682	13.394
7971	25	19.748	21.237					8106	23	4.814	3.706	8178	11	5.583	8.734	8250	21	1.954	13.048
7972	28	23.244	21.088					8107	13	8.471	3.355	8179	28	8.462	8.854	8251	22	1.977	13.345
7973	39	0.113	22.932					8108	25	8.934	3.050	8180	35	12.322	8.471	8252	21	1.984	13.288
7974	14	1.840	22.410					8109*	42	11.394	3.827	8181	23	12.444	8.994	8253	16	2.824	13.518
7975	40	5.720	22.506					8110	28	11.763	3.939	8182*	40	12.874	8.885	8254	18	3.824	13.808
7976	33	6.054	22.372					8111	32	13.506	3.974	8183	34	13.870	8.136	8255*	48	6.992	13.010
7977	10	6.084	22.574					8112	16	14.876	3.544	8184	16	14.444	8.739	8256*	39	7.950	13.124
7978	12	8.758	22.175					8113	15	17.532	3.826	8185	17	15.100	8.076	8257	15	10.472	13.885
7979	21	8.886	22.677					8114	28	17.769	3.464	8186	14	15.212	8.266	8258	26	10.555	13.054
7980	23	10.238	22.268					8115	38	18.699	3.426	8187	24	17.748	8.235	8259	12	10.706	13.776
7981	31	11.338	22.358					8116*	44	21.994	3.394	8188	28	18.005	8.502	8260	14	15.236	13.736
7982	31	13.378	22.242					8117*	58	25.105	3.164	8189	40	19.186	8.146	8261	41	17.835	13.106
7983	12	14.631	22.068					8118	17	0.894	4.056	8190	35	19.819	8.566	8262	15	19.059	13.238
7984	16	14.754	22.448					8119*	44	3.455	4.342	8191	18	20.510	8.756	8263	17	19.378	13.534
7985	20	15.864	22.492					8120	16	4.102	4.012	8192	30	23.282	8.387	8264	13	21.436	13.054
7986	18	16.732	22.148					8121	14	4.309	4.484	8193	14	24.380	8.469	8265	12	21.702	13.426
7987*	44	18.221	22.776					8122	36	4.896	4.866	8194	22	24.950	8.161	8266	13	22.816	13.683
7988	23	18.508	22.178					8123	16	5.696	4.634	8195	16	25.704	8.342	8267	13	25.588	13.330
7989	22	20.181	22.728					8124	24	6.854	4.870	8196	14	3.920	9.605	8268	20	0.198	14.666
7990	33	22.514	22.822					8125	28	9.790	4.599	8197	23	4.804	9.544	8269	11	0.964	14.496
7991	11	24.715	22.930					8126*	42	9.838	4.314	8198	11	7.096	9.337	8270	21	2.128	14.124
7992	27	24.768	22.320					8127	14	12.038	4.365	8199	18	8.039	9.094	8271	36	2.935	14.412
7993	14	24.858	22.208					8128	12	12.526	4.304	8200	15	10.692	9.376	8272	12	3.754	14.850
7994	29	0.950	23.881					8129	34	13.210	4.165	8201	15	11.650	9.816	8273	12	4.994	14.042
7995	25	3.171	23.312					8130	19	14.414	4.532	8202	18	17.690	9.888	8274	21	9.047	14.062
7996	10	5.621	23.275					8131*	40	16.622	4.270	8203	16	18.299	9.384	8275	14	9.250	14.486
7997	10	6.688	23.640					8132	12	18.059	4.710	8204	28	19.955	9.285	8276	11	9.524	14.800
7998	31	7.810	23.222					8133	16	18.106	4.855	8205	10	20.608	9.733	8277	13	10.240	14.556
7999	27	10.067	23.176					8134*	38	19.696	4.652	8206	18	22.319	9.630				



8283	16	21.190	14.784	8355	19	15.574	18.236	8427	14	2.912	22.121	8556	16	2.840	7.872
8284	13	22.086	14.546	8356	13	16.220	18.324	8428*	42	4.956	22.516	8557	21	6.520	7.083
8285	36	22.222	14.964	8357	17	16.546	18.498	8429	30	5.822	22.074	8558	14	7.938	7.068
8286	20	22.332	14.824	8358	12	17.674	18.826	8430	24	6.017	22.814	8559	10	8.654	7.723
8287	20	22.758	14.582	8359	11	18.240	18.820	8431	11	6.102	22.788	8560	10	9.952	7.357
8288	12	23.394	14.876	8360	17	19.728	18.568	8432	13	9.838	22.470	8561*	43	11.052	7.245
8289	12	25.141	14.436	8361	20	19.900	18.268	8433	37	10.386	22.158	8562*	49	13.556	7.634
8290	30	2.995	15.826	8362	12	20.784	18.974	8434	16	12.430	22.506	8563	11	18.938	7.378
8291	18	3.862	15.538	8363	84	25.934	18.123	8435	15	14.866	22.506	8564	14	19.982	7.854
8292	37	7.886	15.040	8364	22	0.005	19.542	8436	20	17.042	22.276	8565	12	20.135	7.650
8293	11	9.710	15.200	8365	16	0.724	19.222	8437	16	17.626	22.198	8566	17	21.774	7.159
8294	13	11.328	15.374	8366	32	2.620	19.514	8438	14	18.686	22.624	8567	17	22.540	7.394
8295	18	11.722	15.524	8367	15	2.982	19.654	8439	15	22.406	22.420	8568*	39	22.552	7.360
8296	20	12.774	15.024	8368	17	5.548	19.866	8440*	54	23.134	22.944	8569	30	25.027	7.665
8297	14	13.328	15.091	8369	14	6.513	19.952	8441	13	23.496	22.434	8570	34	25.712	7.688
8298	21	15.540	15.696	8370	13	7.276	19.706	8442	20	23.524	22.716	8571	21	1.176	8.122
8299	24	17.100	15.176	8371*	50	7.352	19.432	8443	30	25.914	22.138	8572	12	3.596	8.043
8300	13	17.470	15.735	8372	13	7.940	19.532	8444	36	1.434	23.582	8573	15	4.173	8.150
8301	13	21.538	15.105	8373*	46	8.638	19.756	8445	12	1.640	23.858	8574	21	7.186	8.608
8302	34	23.819	15.124	8374	12	9.120	19.294	8446	34	2.419	23.512	8575	10	10.067	8.740
8303	28	0.470	16.025	8375	14	11.096	19.882	8447	13	3.502	23.308	8576	30	17.678	8.838
8304	22	0.854	16.974	8376	24	12.786	19.714	8448	34	3.766	23.056	8577	18	18.812	8.454
8305	17	2.539	16.044	8377	11	13.881	19.405	8449	39	4.448	23.516	8578	32	21.217	8.352
8306	15	2.926	16.905	8378	29	14.552	19.965	8450	24	4.760	23.074	8579	17	23.264	8.180
8307	16	3.682	16.666	8379	13	14.842	19.434	8451	24	5.815	23.181	8580	14	5.498	9.598
8308	13	3.806	16.786	8380	14	15.984	19.764	8452	26	9.656	23.664	8581	19	7.519	9.638
8309	17	4.894	16.831	8381*	42	16.723	19.064	8453	38	16.736	23.886	8582	16	14.833	9.491
8310	16	7.380	16.928	8382	14	17.169	19.556	8454	36	17.198	23.856	8583	22	15.042	9.788
8311	12	9.809	16.774	8383	30	18.776	19.274	8455	21	19.218	23.984	8584	13	16.666	9.317
8312*	38	12.460	16.118	8384	18	21.846	19.538	8456	22	19.218	23.016	8585	22	25.078	9.946
8313	26	13.276	16.606	8385	24	22.054	19.684	8457	34	21.930	23.346	8586	27	0.036	10.608
8314	15	13.345	16.708	8386	21	23.256	19.099	8458	26	23.299	23.446	8587	13	1.044	10.902
8315	16	13.354	16.286	8387	39	25.262	19.726	8459	16	25.756	23.406	8588	24	5.260	10.672
8316	20	15.330	16.252	8388	16	3.854	20.494	8460	19	4.856	24.788	8589	18	6.466	10.252
8317	23	15.690	16.224	8389	21	6.584	20.758	8461	38	5.756	24.104	8590	15	6.875	10.382
8318	16	18.136	16.572	8390	12	8.188	20.784	8462	16	8.490	24.738	8591	30	6.988	10.276
8319	20	18.178	16.854	8391	11	13.047	20.101	8463	19	9.720	24.940	8592	10	7.278	10.641
8320	14	18.864	16.748	8392	14	13.312	20.525	8464	13	10.902	24.614	8593	30	9.198	10.032
8321	11	20.594	16.466	8393	30	13.711	20.679	8465	13	11.304	24.515	8594	16	15.932	10.212
8322	16	22.516	16.724	8394	13	15.328	20.750	8466	16	13.232	24.224	8595	11	1.962	11.865
8323	14	22.861	16.066	8395	12	16.995	20.826	8467	24	14.304	24.826	8596	33	5.172	11.034
8324*	59	23.132	16.046	8396	20	17.238	20.524	8468	17	14.816	24.292	8597	12	5.858	11.147
8325	15	23.875	16.350	8397	20	20.085	20.070	8469*	54	19.504	24.757	8598	12	8.483	11.622
8326	11	0.595	17.955	8398	15	20.582	20.094	8470	14	19.858	24.918	8599	12	12.796	11.642
8327	13	3.884	17.226	8399	17	21.250	20.089	8471	38	20.194	24.550	8600	26	14.939	11.191
8328	13	4.814	17.508	8400	17	21.346	20.815	8472	25	20.260	24.176	8601	13	20.535	11.903
8329	12	9.050	17.654	8401*	50	22.274	20.008	8473	40	21.600	24.904	8602	23	1.786	12.608
8330	15	9.930	17.586	8402	21	22.434	20.626	8474	19	1.726	25.036	8603	18	1.930	12.321
8331*	57	10.852	17.679	8403	16	23.566	20.274	8475	22	2.078	25.423	8604	8	4.892	12.916
8332*	80	10.946	17.772	8404	17	25.246	20.679	8476	15	2.856	25.900	8605	14	5.554	12.086
8333	15	16.550	17.151	8405	21	1.294	21.004	8477	37	3.594	25.205	8606	10	6.168	12.638
8334	14	17.124	17.114	8406	14	5.505	21.228	8478	38	7.625	25.486	8607*	66	11.340	12.149
8335	17	18.153	17.979	8407	16	11.194	21.114	8479	15	9.292	25.023	8608	12	16.756	12.953
8336	28	19.416	17.534	8408	14	11.346	21.464	8480	19	10.017	25.648	8609	20	22.670	12.364
8337	39	21.074	17.666	8409	11	11.835	21.240	8481	15	11.620	25.005	8610	29	23.933	12.252
8338	14	21.099	17.014	8410	18	12.354	21.504	8482	37	13.535	25.314	8611	30	24.823	12.534
8339	28	21.287	17.288	8411	12	13.704	21.508	8483	17	13.540	25.500	8612	14	25.408	12.884
8340	31	21.539	17.915	8412	18	15.580	21.932	8484	20	15.102	25.131	8613	20	4.909	13.827
8341	26	21.949	17.339	8413	16	15.738	21.226	8485	17	15.574	25.675	8614	9	9.434	13.902
8342	13	22.346	17.509	8414*	39	18.044	21.815	8486	19	16.936	25.995	8615	12	12.250	13.042
8343	19	23.729	17.036	8415	12	18.744	21.156	8487	17	17.902	25.351	8616*	51	12.718	13.372
8344*	70	0.340	18.966	8416	13	18.794	21.666	8488	44	20.010	25.865	8617	32	14.928	13.098
8345*	60	1.786	18.696	8417	17	20.456	21.565	8489	24	20.714	25.214	8618	18	15.564	13.707
8346	34	2.890	18.258	8418	21	21.616	21.035	8490	39	21.535	25.058	8619*	40	17.272	13.848
8347	16	3.946	18.460	8419	34	22.905	21.398	8491	14	22.166	25.117	8620	17	21.792	13.530
8348	34	5.430	18.746	8420	40	23.322	21.184	8492	12	23.736	25.844	8621	17	22.016	13.322
8349	20	6.695	18.319	8421	13	23.716	21.474	8493	25	24.676	25.884	8622*	42	24.331	13.334
8350	16	8.190	18.792	8422	12	24.501	21.466					8623	22	0.200	14.710
8351	14	8.525	18.906	8423	31	24.602	21.098					8624	11	0.312	14.568
8352	39	9.796	18.371	8424	34	0.566	22.736					8625	13	0.735	14.320
8353	16	13.604	18.568	8425	14	2.084	22.686					8626	25	1.797	14.846
8354	13	14.750	18.924	8426	21	2.820	22.234					8627	8	3.113	14.143

R.A. 4h 44m

Plate 1782; 1921 Jan. 3.

Provisional Constants.

A B C  
-01780 -00188 +0768D E F  
+00158 -01753 -5014

Mag. = 16.1 - 1.05√d

No	d	x	y
8501	23	5.764	0.64
8502*	51	12.938	0.84
8503	19	21.856	0.69
8504	10	23.277	0.32
8505	17	1.660	1.19
8506	10	4.520	1.09
8507*	45	11.260	1.95
8508*	45	15.740	1.28
8509	16	23.782	1.93
8510	26	24.978	1.94
8511	29	25.174	1.13
8512	30	25.230	1.55
8513*	50	2.923	2.87
8514	22	5.275	2.45
8515	20	11.978	2.97
8516	28	12.616	2.21
8517	29	17.912	2.65
8518	19	19.953	2.85
8519	19	23.817	2.69
8520	12	24.916	2.14
8521	32	7.526	3.01
8522	28	10.094	3.35
8523	31	12.412	3.37
8524	18	17.466	3.05
8525	16	18.218	3.32
8526	19	21.968	3.55
8527	11	23.354	3.07
8528	12	24.129	3.08
8529	17	24.606	3.17
8530	25	6.650	4.85
8531	19	11.432	4.66
8532	10	14.234	4.87
8533	19	16.970	4.62
8534	8	23.022	4.77
8535*	46	3.400	5.92
8536	18	9.355	5.93
8537	13	14.440	5.33
8538	8	16.208	5.68
8539	8	16.499	5.22
8540	13	19.458	5.61
8541	31	20.794	5.70
8542	10	21.818	5.73
8543	12	22.664	5.61
8544	11	22.798	5.90
8545*	58	0.260	6.81
8546	13	6.063	6.90
8547	15	7.662	6.88
8548	11	9.997	6.51
8549	13	10.198	6.81
8550	19	13.887	6.51
8551	12	15.668	6.51
8552	9	16.280	6.33
8553	24	18.254	6.44
8554	18	18.574	6.90
8555	9	19.580	6.71



8628	18	15.080	14.059	8700	19	25.144	21.038	8766	15	2.744	2.268	8838	16	6.206	10.210	8910	17	8.434	17.435
8629	26	15.664	14.107	8701*	44	1.214	22.676	8767	39	2.804	2.066	8839	10	10.022	10.656	8911*	36	15.626	17.710
8630	13	18.138	14.272	8702	10	1.607	22.442	8768	33	5.936	2.424	8840	14	12.360	10.116	8912	30	19.710	17.811
8631	25	23.960	14.599	8703	17	4.660	22.292	8769	36	12.650	2.660	8841	19	16.430	10.849	8913	28	20.364	17.738
8632*	48	1.122	15.780	8704	19	7.357	22.682	8770	26	14.082	2.582	8842	13	16.770	10.710	8914*	41	4.124	18.916
8633	20	7.477	15.928	8705	10	8.548	22.658	8771	28	18.810	2.909	8843	24	17.288	10.786	8915	31	5.830	18.826
8634*	36	8.825	15.684	8706*	47	8.886	22.532	8772	15	20.550	2.650	8844*	51	20.715	10.044	8916*	32	7.962	18.982
8635	19	10.736	15.828	8707	22	9.556	22.028	8773	17	21.206	2.618	8845*	92	4.310	11.725	8917	10	8.054	18.234
8636	25	12.092	15.562	8708	36	13.349	22.504	8774	13	24.340	2.684	8846	17	5.376	11.256	8918	32	10.806	18.636
8637	29	13.794	15.880	8709	24	13.613	22.928	8775	13	1.201	3.222	8847	27	7.692	11.484	8919*	34	11.030	18.335
8638	18	14.242	15.375	8710	14	15.284	22.578	8776	11	1.978	3.215	8848	14	15.260	11.260	8920	23	11.136	18.833
8639	19	15.221	15.770	8711	19	16.448	22.780	8777	23	2.456	3.298	8849	46	15.722	11.618	8921*	42	14.414	18.272
8640	10	16.464	15.532	8712	22	23.312	22.016	8778	37	7.999	3.454	8850	14	17.354	11.579	8922	39	14.576	18.182
8641	35	18.629	15.878	8713	21	23.734	22.712	8779*	46	12.780	3.092	8851	51	25.713	11.151	8923	16	14.684	18.621
8642*	36	21.263	15.938	8714	34	24.198	22.870	8780	30	15.362	3.110	8852	24	0.701	12.532	8924	11	19.068	18.744
8643	9	22.900	15.450	8715	20	0.022	23.093	8781	16	18.389	3.406	8853	29	1.960	12.392	8925	18	19.659	18.316
8644	14	24.481	15.755	8716	16	11.412	23.582	8782	9	3.180	4.472	8854	33	2.859	12.656	8926*	33	22.492	18.791
8645	9	0.520	16.462	8717	21	15.414	23.488	8783	12	4.961	4.770	8855	15	3.454	12.995	8927	30	24.977	18.918
8646	11	1.736	16.760	8718	11	19.284	23.763	8784	17	11.580	4.812	8856	29	4.790	12.656	8928	19	2.801	19.214
8647	28	7.792	16.357	8719	19	4.895	24.287	8785	11	13.170	4.740	8857	23	13.086	12.886	8929	19	6.622	19.941
8648	31	8.569	16.980	8720	18	5.987	24.025	8786	41	13.850	4.030	8858	19	22.340	12.726	8930	27	8.934	19.620
8649	12	9.102	16.892	8721	18	6.902	24.093	8787*	49	17.652	4.590	8859*	45	23.842	12.710	8931	14	15.002	19.110
8650*	61	9.117	16.917	8722	11	8.387	24.168	8788	14	18.688	4.386	8860	10	24.340	12.510	8932	29	15.070	19.106
8651	12	13.760	16.826	8723	10	13.526	24.371	8789	27	21.190	4.168	8861	23	25.351	12.394	8933	20	20.230	19.390
8652	18	20.672	16.842	8724	24	14.062	24.460	8790*	50	4.000	5.849	8862	18	0.068	13.500	8934	31	22.618	19.872
8653	11	22.518	16.882	8725	8	14.148	24.508	8791*	43	5.586	5.964	8863*	46	2.380	13.465	8935	15	2.084	20.828
8654*	73	3.947	17.816	8726*	49	15.268	24.874	8792	10	5.789	5.482	8864	15	6.040	13.437	8936	30	3.574	20.299
8655	24	4.666	17.218	8727	20	15.272	24.048	8793	27	12.164	5.272	8865	25	6.927	13.745	8937*	45	5.537	20.722
8656	11	5.334	17.594	8728	14	16.034	24.985	8794	32	16.020	5.760	8866	16	8.390	13.682	8938	10	8.755	20.201
8657	26	7.126	17.746	8729	38	25.906	24.872	8795	14	5.749	6.592	8867	13	15.863	13.759	8939	20	9.160	20.190
8658	10	7.468	17.042	8730	10	2.807	25.594	8796	32	5.887	6.173	8868	10	16.839	13.922	8940	34	10.097	20.298
8659	21	17.410	17.550	8731	27	15.350	25.732	8797	11	9.158	6.491	8869	13	17.525	13.674	8941	11	10.208	20.870
8660*	34	20.144	17.427	8732	12	16.648	25.252	8798	25	10.843	6.370	8870	29	20.445	13.750	8942	10	12.575	20.474
8661	15	4.470	18.929					8799	12	12.385	6.590	8871	15	21.080	13.626	8943	19	12.823	20.544
8662	15	8.315	18.152					8800	34	13.251	6.110	8872	8	23.391	13.706	8944	13	14.950	20.143
8663	12	8.514	18.373					8801	28	15.266	6.176	8873	19	23.496	13.859	8945	20	16.063	20.683
8664	19	9.534	18.617					8802	30	20.360	6.222	8874	28	2.035	14.736	8946	26	18.678	20.896
8665	32	14.260	18.828					8803	24	21.035	6.442	8875	11	4.279	14.720	8947	18	22.887	20.092
8666	11	17.112	18.490					8804	14	0.470	7.560	8876	15	5.260	14.370	8948	14	24.368	20.990
8667	17	19.311	18.331					8805*	45	0.480	7.528	8877	29	5.793	14.804	8949	11	24.862	20.034
8668	10	23.702	18.761					8806	34	2.963	7.782	8878	11	7.720	14.200	8950	30	2.338	21.996
8669	35	25.965	18.820					8807	40	3.650	7.790	8879	15	7.815	14.338	8951	26	2.490	21.126
8670	20	0.098	19.432					8808	13	4.790	7.339	8880	16	10.638	14.588	8952	28	2.510	21.045
8671*	46	0.318	19.752					8809	27	6.168	7.609	8881	18	10.985	14.882	8953*	54	2.800	21.212
8672	32	3.300	19.432					8810	18	7.396	7.050	8882	16	13.445	14.411	8954	28	3.350	21.150
8673*	51	7.116	19.902					8811*	59	8.648	7.132	8883	30	18.475	14.336	8955	12	6.114	21.408
8674	18	7.288	19.017					8812	23	11.190	7.539	8884	15	19.023	14.518	8956	27	11.045	21.964
8675	36	7.478	19.253					8813	10	19.450	7.298	8885	22	20.681	14.508	8957	12	17.814	21.589
8676	17	8.032	19.609					8814	10	19.710	7.608	8886	36	20.744	14.133	8958	10	17.944	21.818
8677	19	11.613	19.176					8815	13	21.966	7.899	8887	11	2.580	15.881	8959	14	21.786	21.229
8678	25	11.730	19.793					8816	34	24.402	7.928	8888	13	5.584	15.489	8960	25	24.654	21.049
8679	14	15.235	19.273					8817	31	25.136	7.547	8889	14	8.856	15.718	8961	25	25.721	21.470
8680	13	17.148	19.534					8818	17	1.214	8.333	8890	15	10.170	15.410	8962	27	1.538	22.166
8681	18	24.634	19.092					8819	24	11.144	8.345	8891	30	13.684	15.725	8963	29	1.977	22.853
8682	38	1.382	20.913					8820	14	12.375	8.700	8892	35	14.198	15.237	8964*	47	5.041	22.206
8683	19	2.662	20.810					8821*	41	13.850	8.016	8893	35	15.839	15.462	8965	18	6.820	22.786
8684	10	3.305	20.384					8822	29	15.730	8.375	8894	28	16.544	15.490	8966	17	7.937	22.934
8685	12	8.302	20.757					8823	32	19.425	8.725	8895	26	17.904	15.056	8967	16	7.960	22.898
8686	10	13.644	20.842					8824*	48	19.552	8.823	8896	39	21.197	15.270	8968	13	9.770	22.335
8687	32	13.833	20.291					8825	29	24.637	8.670	8897	14	23.258	15.280	8969	36	13.510	22.486
8688	10	19.738	20.048					8826	32	25.512	8.711	8898	17	23.627	15.300	8970	11	14.770	22.922
8689	13	23.884	20.690					8827	30	4.357	9.562	8899	13	24.170	15.535	8971	27	16.810	22.056
8690	19	24.286	20.995					8828	32	6.258	9.002	8900	35	4.584	16.638	8972	34	17.490	22.375
8691	19	24.304	20.912					8829	12	8.372	9.302	8901	11	5.859	16.814	8973	31	21.401	22.460
8692	24	25.384	20.190					8830	17	11.380	9.230	8902*	53	9.063	16.335	8974	28	22.794	22.856
8693	21	0.970	21.132					8831	12	17.269	9.202	8903	48	9.172	16.535	8975	39	2.440	23.003
8694	21	3.986	21.832					8832	15	22.360	9.520	8904	28	12.690	16.242	8976*	39	10.106	23.946
8695	15	16.784	21.990																



8982	14	12-016	24-557	9036	13	18 308	3 692	9108	14	4 478	10-167	9180	10	18 940	15-265	9252	28	15-668	22-929
8983	47	12-500	24-820	9037	50	20 134	3-804	9109	16	7 745	10 926	9181	11	21-832	15-259	9253	23	17-522	22-632
8984	32	14-584	24-788	9038	59	22 928	3-831	9110	13	10-110	10-338	9182	34	24 494	15 028	9254	21	20-679	22-344
8985	29	15-167	24-994	9039	13	24 526	3 669	9111	35	10-174	10-732	9183	10	4-894	16-632	9255	26	0-853	23-314
8986	20	15-404	24-759	9040	23	5-975	4-070	9112	23	19-682	10 910	9184	12	9-936	16-446	9256	13	12-130	23-810
8987	26	18-130	24-930	9041	11	6-345	4-409	9113	26	20-666	10 931	9185	48	13-974	16 932	9257	35	12-699	23-656
8988	49	22-100	24-326	9042	14	11 408	4-170	9114	22	20-739	10-110	9186	15	14 344	16 964	9258	17	14-226	23-504
8989	14	24-381	21-677	9043	24	13-266	4 653	9115	20	21 316	10 722	9187	45	17-394	16-090	9259	13	15-602	23-132
8990	20	11-902	25-009	9044	42	18-198	4-020	9116	26	24 336	10 099	9188	32	25-870	16-790	9260	23	17-106	23 892
8991	31	11-970	25-064	9045	12	23-362	4 894	9117	13	1-536	11 470	9189	13	6-057	17-132	9261	25	17 210	23-150
8992	30	12-566	25-940	9046	15	23-438	4-672	9118	16	2-027	11-082	9190	14	6-985	17-901	9262	17	20-862	23-400
8993	20	17-010	25-474	9047	20	23 546	4-929	9119	44	3 610	11-576	9191	41	7-914	17-402	9263	31	24-321	23-336
8994	27	19-714	25-060	9048	15	23-613	4-248	9120	31	4-056	11-770	9192	24	7-990	17-075	9264	43	25-870	23 212
				9049	39	25-942	4-393	9121	10	4-525	11-807	9193	33	13-548	17-294	9265	40	0-176	24-794
				9050	15	13-489	5-010	9122	35	4-605	11-134	9194	63	15-610	17-351	9266	14	1 754	24-064
				9051	10	13-980	5 757	9123	23	10-279	11-320	9195	12	16-050	17 074	9267	14	2-710	24-434
				9052	29	13-982	5-730	9124	23	10-718	11-760	9196	13	18-702	17-090	9268	10	6 786	24-358
				9053	59	14-152	5-458	9125	35	12-873	11-178	9197	11	19-065	17-390	9269	10	7 700	24-698
				9054	29	14-596	5 120	9126	12	2 262	12-948	9198	33	19-799	17-488	9270	10	8-139	24-657
				9055	18	15 561	5 034	9127	24	3-269	12-818	9199	25	21-044	17-820	9271	23	9-282	24-224
				9056	10	19-050	5-362	9128	26	6-192	12 752	9200	38	10-757	18-432	9272	27	13 304	24-696
				9057	12	20 094	5-480	9129	10	8-914	12-182	9201	13	12-535	18-120	9273	30	14-456	24-396
				9058	30	6-154	6-749	9130	18	9-348	12-714	9202	10	15-438	18-495	9274	39	14-512	24-982
				9059	23	6-482	6-482	9131	18	9-515	12 093	9203	13	20-931	18-440	9275	17	15-103	24-546
				9060	10	11-962	6 391	9132	9	13-155	12 648	9204	34	0-494	19-254	9276	30	18-242	24-618
				9061	42	13-431	6-352	9133	44	17-910	12 936	9205	31	2-981	19-340	9277	22	25-450	24-750
				9062	25	13-941	6-379	9134	13	18-658	12-260	9206	28	7-166	19-268	9278	19	2-464	25-114
				9063	23	14-691	6-835	9135	21	19-968	12-786	9207	41	8-576	19 366	9279	35	8-042	25-729
				9064	18	14-710	6-010	9136	22	22-033	12-750	9208	36	10-807	19-718	9280	33	9-672	25-476
				9065	34	15-588	6-210	9137	14	22-218	12-140	9209	10	11-868	19-836	9281	18	10-836	25-461
				9066	25	16-320	6-590	9138	27	22-411	12-145	9210	43	16-422	19-254	9282	29	12 296	25-460
				9067	21	17 068	6-386	9139	10	25-070	12-271	9211	12	21-245	19-914	9283	23	15-103	25-954
				9068	14	19-108	6-400	9140	15	0 260	13-192	9212	40	22-276	19-810	9284	34	16-591	25-108
				9069	25	24-103	6 991	9141	40	1-762	13 156	9213	46	23-416	19-749	9285	30	18-978	25-691
				9070	26	25-509	6-171	9142	27	6-196	13 386	9214	33	0-634	20-332	9286	32	21-564	25-042
				9071	33	2-990	7-975	9143	22	10-562	13-972	9215	30	0-908	20 550	9287	10	22-276	25-070
				9072	13	4-156	7 872	9144	25	12-108	13-536	9216	16	2-884	20-466				
				9073	14	4-325	7-530	9145	13	15-630	13-235	9217	34	7-645	20-644				
				9074	17	4-933	7-689	9146	12	15 736	13-888	9218	38	10 830	20 861				
				9075	27	9-878	7-742	9147	18	17-430	13-014	9219	22	13-024	20-148				
				9076	22	11-475	7-134	9148	11	18 006	13 876	9220	27	13-511	20-621				
				9077	40	13-116	7-904	9149	22	19-601	13-791	9221	14	18 220	20-246				
				9078	10	13-184	7-832	9150	28	19-677	13-422	9222	11	19-855	20-500				
				9079	15	18-252	7-141	9151	9	20-198	13-623	9223	27	20-238	20 831				
				9080	30	19-046	7-628	9152	17	23-065	13-940	9224	20	21-402	20-989				
				9081	11	19-922	7-732	9153	34	23-588	13-324	9225	9	23-438	20 039				
				9082	10	20-429	7-673	9154	10	1-328	14-156	9226	21	2-400	21-428				
				9083	36	2-261	8-368	9155	18	1-432	14-310	9227	25	2-687	21-481				
				9084	38	10-741	8-202	9156	40	4-273	14-372	9228	14	2-710	21-260				
				9085	34	10-770	8-199	9157	27	7-103	14-168	9229	28	3-762	21-890				
				9086	29	11-246	8-920	9158	11	9-972	14-130	9230	32	7-576	21-444				
				9087	17	11-259	8-740	9159	15	10-539	14-204	9231	33	7-992	21-096				
				9088	20	19-791	8-491	9160	25	15-535	14-377	9232	25	9-543	21-540				
				9089	18	22-364	8-094	9161	12	16-164	14-609	9233	18	11-404	21-574				
				9090	25	23-481	8-490	9162	22	17-461	14-498	9234	14	11-874	21-512				
				9091	19	25-072	8-590	9163	24	17-550	14-200	9235	16	12-235	21-018				
				9092	13	0-241	9-985	9164	19	18-564	14-479	9236	29	12 888	21-738				
				9093	26	2-254	9-566	9165	14	20-883	14-150	9237	23	15-876	21-384				
				9094	30	2-506	9-104	9166	15	1-214	15-734	9238	16	16-920	21-860				
				9095	32	3-382	9-135	9167	17	1-584	15-748	9239	14	17-415	21-632				
				9096	32	3-774	9-976	9168	12	2-130	15-975	9240	9	18-730	21-027				
				9097	10	11-013	9-728	9169	31	5-366	15-760	9241	12	18-944	21-022				
				9098	27	12-022	9-248	9170	21	7-042	15-444	9242	10	18-962	21-440				
				9099	15	12-618	9-952	9171	23	7-415	15-840	9243	14	19-866	21-130				
				9100	25	13-024	9-219	9172	49	8-573	15-572	9244	26	19-884	21-151				
				9101	34	14-369	9-469	9173	34	8-790	15-602	9245	33	23-468	21-630				
				9102	12	18-454	9-496	9174	15	9-760	15-384	9246	55	5-304	22-353				
				9103	47	19-014	9-524	9175	16	10-560	15-042	9247	20	7-055	22-530				
				9104	20	19-719	9-936	9176	23	11-964	15-010	9248	10	12-794	22-293				
				9105	24	21-652	9-070	9177	45	13-086	15-954	9249	32	13-966	22-201				
				9106	10	1-971	10-529	9178	23	14-468	15-280	9250	10	14-690	22-520				
				9107	21	3-579	10-150	9179	10	15-625	15 680	9251	30	15-053	22-816				

R.A. 5<sup>h</sup> 0<sup>m</sup>

Plate 1783; 1921 Jan. 3

Provisional Constants.

A      B      C  
 -01760 + 00644 -0470

D      E      F  
 -00678 -01764 +0222

Mag. = 15.9 - 1.05√d

R.A. 5<sup>h</sup> 8<sup>m</sup>



9313	15	11 611	1.397	9385	13	25.388	7.285	9457	13	22.832	14.028	9529	30	22.202	19.408	<div>R.A. 5<sup>h</sup> 16<sup>m</sup></div> <div>Plate 1719 ; 1920 Oct. 16.</div> <div>Provisional Constants</div> <div>A            B            C</div> <div>—01742 —00430 +1356</div> <div>D            E            F</div> <div>+00405 —01761 —2482</div> <div>Mag.=17.0—1.05√d</div>
9314	20	12.882	1.038	9386	19	1.388	8.014	9458*	65	24.444	14.505	9530	17	6.742	20.188	
9315	30	12.934	1.759	9387	20	2.982	8.094	9459	15	5.217	15.868	9531	11	6.798	20.596	
9316	21	17.637	1.551	9388	13	4.188	8.388	9460	9	6.858	15.544	9532	28	7.882	20.053	
9317	18	20.656	1.596	9389	19	4.870	8.560	9461	9	7.758	15.174	9533	32	7.922	20.884	
9318	19	3.848	2.442	9390	19	8.166	8.352	9462	32	11.120	15.415	9534	20	8.323	20.614	
9319*	42	7.561	2.901	9391	19	11.316	8.919	9463	23	12.590	15.968	9535	24	10.838	20.254	
9320	16	12.832	2.874	9392*	48	14.361	8.522	9464	8	13.088	15.768	9536	37	19.655	20.488	
9321	14	16.228	2.539	9393	9	15.942	8.898	9465	14	13.644	15.581	9537	38	20.975	20.840	
9322	13	18.108	2.962	9394	16	21.242	8.674	9466	16	13.826	15.475	9538	11	24.103	20.718	
9323	10	19.292	2.898	9395*	43	23.958	8.940	9467	10	16.757	15.788	9539	34	25.570	20.096	
9324	11	20.812	2.552	9396	31	25.480	8.360	9468	10	20.552	15.052	9540	35	1.556	21.155	
9325	23	24.292	2.786	9397	24	2.265	9.612	9469*	55	22.014	15.666	9541	10	4.527	21.665	
9326	26	24.593	2.918	9398	17	4.914	9.524	9470	28	3.891	16.282	9542	10	7.259	21.377	
9327*	62	0.763	3.364	9399	12	7.240	9.641	9471	18	4.578	16.963	9543	29	9.555	21.396	
9328	11	1.462	3.772	9400	20	7.550	9.392	9472	18	12.899	16.643	9544	22	11.535	21.320	
9329	16	2.370	3.180	9401	18	7.766	9.905	9473	15	13.261	16.210	9545	9	13.165	21.762	
9330	12	3.334	3.640	9402	14	10.377	9.270	9474	15	13.578	16.714	9546	17	13.508	21.736	
9331*	39	3.791	3.884	9403	39	12.292	9.259	9475	14	13.695	16.458	9547	34	14.443	21.642	
9332*	41	10.776	3.666	9404	25	19.278	9.980	9476	14	13.867	16.457	9548	12	15.912	21.032	
9333	38	11.527	3.290	9405	10	20.653	9.947	9477	18	13.990	16.796	9549*	68	17.838	21.078	
9334	10	13.702	3.430	9406	11	24.419	9.038	9478	22	14.749	16.416	9550*	39	18.023	21.019	
9335	15	14.106	3.450	9407	34	8.403	10.638	9479	10	15.818	16.007	9551	18	18.282	21.680	
9336*	49	14.446	3.236	9408*	75	8.450	10.608	9480	12	15.936	16.932	9552	32	18.622	21.186	
9337	11	16.349	3.894	9409	10	9.062	10.788	9481	13	16.574	16.047	9553	30	2.435	22.849	
9338	18	16.462	3.748	9410	18	11.616	10.706	9482	22	20.661	16.264	9554*	48	3.979	22.704	
9339	10	17.403	3.042	9411	17	13.694	10.784	9483	20	22.616	16.315	9555*	45	7.554	22.718	
9340*	48	17.814	3.808	9412	33	13.931	10.482	9484	13	23.735	16.683	9556	20	14.760	22.356	
9341	27	21.088	3.026	9413	10	15.838	10.866	9485	24	25.516	16.640	9557	10	17.250	22.850	
9342	19	23.302	3.025	9414	10	15.880	10.548	9486	10	25.635	16.514	9558	12	17.655	22.884	
9343	21	25.200	3.380	9415	32	23.144	10.450	9487	47	25.656	16.406	9559	36	18.892	22.962	
9344	10	1.292	4.199	9416*	37	25.072	10.548	9488	13	25.911	16.101	9560	14	19.765	22.208	
9345	16	1.403	4.454	9417	20	0.368	11.683	9489	14	5.737	17.751	9561	21	25.088	22.522	
9346*	52	4.010	4.543	9418	12	3.030	11.771	9490	8	6.691	17.961	9562	40	5.230	23.172	
9347	13	7.726	4.274	9419	11	4.271	11.974	9491	19	7.134	17.064	9563	21	6.837	23.207	
9348	19	9.658	4.218	9420	18	4.394	11.642	9492	12	7.255	17.048	9564	8	8.784	23.256	
9349	22	14.086	4.454	9421	10	5.028	11.121	9493	11	7.652	17.506	9565	11	9.760	23.872	
9350	18	14.710	4.645	9422	17	6.920	11.782	9494	14	8.963	17.154	9566	29	12.870	23.698	
9351	10	16.490	4.682	9423	14	12.154	11.072	9495	15	9.070	17.714	9567	21	14.026	23.670	
9352	18	17.374	4.618	9424	28	18.816	11.777	9496	15	10.528	17.800	9568	23	17.390	23.688	
9353	21	3.384	5.668	9425	16	19.382	11.113	9497	32	10.706	17.072	9569	10	19.718	23.482	
9354	32	7.628	5.482	9426	31	20.263	11.462	9498	35	13.343	17.972	9570	15	19.916	23.001	
9355	41	8.060	5.586	9427	9	20.532	11.364	9499	20	15.682	17.835	9571	27	20.308	23.736	
9356	21	10.530	5.178	9428	16	21.128	11.250	9500	25	17.100	17.037	9572	12	23.198	23.328	
9357	11	12.534	5.952	9429	14	21.602	11.264	9501	12	17.622	17.494	9573	9	0.416	24.609	
9358	13	13.018	5.334	9430	17	21.756	11.966	9502	16	18.728	17.144	9574	19	3.584	24.246	
9359	33	13.455	5.286	9431	17	22.465	11.056	9503	18	22.800	17.944	9575	27	4.692	24.910	
9360	16	15.310	5.028	9432	13	0.000	12.294	9504	18	4.367	18.518	9576*	28	6.774	24.170	
9361	19	17.630	5.984	9433*	28	1.560	12.848	9505	9	6.808	18.612	9577	9	14.754	24.080	
9362	21	24.840	5.318	9434	10	5.675	12.932	9506	11	7.410	18.746	9578	29	15.038	24.999	
9363	22	1.988	6.508	9435*	38	9.772	12.253	9507	21	8.450	18.562	9579	21	17.640	24.908	
9364	14	12.289	6.544	9436	15	18.210	12.068	9508	17	8.666	18.298	9580	10	18.654	24.702	
9365	16	12.430	6.796	9437	9	18.869	12.453	9509	29	10.835	18.226	9581	17	22.988	24.132	
9366	12	13.953	6.888	9438	23	19.857	12.265	9510	12	13.658	18.450	9582	24	23.966	24.364	
9367	18	17.251	6.466	9439	16	21.858	12.336	9511	17	13.990	18.020	9583	10	7.594	25.862	
9368	20	17.441	6.750	9440	25	22.525	12.075	9512	10	15.217	18.957	9584	48	9.406	25.755	
9369	17	19.384	6.192	9441	13	1.045	13.471	9513	9	15.944	18.212	9585	10	10.396	25.313	
9370	19	20.256	6.872	9442	14	8.708	13.946	9514	13	17.280	18.262	9586	13	13.338	25.974	
9371	31	22.532	6.274	9443	18	9.743	13.298	9515	19	21.847	18.546	9587	18	14.627	25.437	
9372	13	0.266	7.634	9444	20	13.554	13.586	9516	39	0.340	19.351	9588	13	15.132	25.554	
9373	9	2.962	7.500	9445	22	14.670	13.178	9517*	49	1.474	19.272	9589	46	16.252	25.534	
9374	30	4.667	7.300	9446	13	19.448	13.628	9518	10	5.629	19.704	9590	40	22.480	25.581	



9656	27	12.924	3.766	9728	44	19.912	7.865	9800	28	9.050	11.294	9872*	50	23.843	15.180	9944	25	23.524	19.509
9657	42	13.447	3.874	9729	20	21.636	7.083	9801	27	10.514	11.678	9873	66	0.063	16.218	9945	31	23.972	19.352
9658	29	13.826	3.444	9730	10	22.036	7.390	9802	16	11.181	11.614	9874	30	0.668	16.865	9946	27	24.260	19.950
9659	15	19.198	3.442	9731	22	23.692	7.206	9803	26	12.053	11.700	9875*	57	3.708	16.954	9947	42	3.626	20.644
9660	28	21.272	3.916	9732	39	3.530	8.909	9804	13	12.904	11.540	9876	30	3.965	16.649	9948	22	6.004	20.784
9661	28	21.613	3.503	9733	13	3.736	8.307	9805	23	13.702	11.799	9877	17	6.036	16.602	9949	27	8.180	20.276
9662	16	24.766	3.980	9734	15	3.994	8.208	9806	29	13.746	11.886	9878	10	9.408	16.842	9950	15	8.524	20.058
9663	15	2.450	4.515	9735	12	4.389	8.018	9807	18	14.378	11.022	9879	23	9.460	16.384	9951	19	9.060	20.400
9664	34	5.327	4.856	9736	27	6.188	8.587	9808	13	14.724	11.870	9880	19	11.840	16.486	9952	21	9.430	20.628
9665	29	6.421	4.530	9737	17	6.857	8.599	9809	30	15.274	11.765	9881*	185	13.332	16.600	9953	27	10.200	20.074
9666	30	7.180	4.925	9738	27	7.414	8.900	9810	34	15.754	11.556	9882	12	14.050	16.410	9954	15	11.161	20.267
9667	11	10.618	4.026	9739	16	8.460	8.897	9811	33	17.904	11.248	9883	35	15.501	16.922	9955	33	13.672	20.120
9668	27	11.223	4.164	9740	28	13.112	8.780	9812	17	19.280	11.986	9884	34	16.148	16.860	9956	15	14.358	20.214
9669	30	12.500	4.644	9741	16	14.784	8.563	9813	20	19.684	11.786	9885	43	16.319	16.394	9957	27	14.466	20.400
9670	19	15.594	4.942	9742	41	17.286	8.360	9814	48	22.618	11.736	9886*	51	21.338	16.238	9958	12	15.673	20.110
9671	47	16.750	4.898	9743	14	18.400	8.993	9815	33	23.602	11.680	9887	12	21.634	16.318	9959	24	15.926	20.918
9672	31	19.572	4.676	9744	14	19.118	8.420	9816	32	23.808	11.155	9888	24	23.502	16.116	9960	17	16.964	20.102
9673	30	20.688	4.330	9745	28	19.330	8.276	9817	32	0.575	12.625	9889	14	23.622	16.480	9961	30	20.398	20.308
9674	49	25.197	4.945	9746	46	20.305	8.418	9818	14	2.283	12.658	9890	26	1.790	17.235	9962	25	22.978	20.645
9675	37	2.886	5.866	9747	11	20.700	8.336	9819*	54	7.770	12.378	9891	34	3.570	17.189	9963	31	23.110	20.154
9676	24	4.428	5.280	9748	15	23.730	8.936	9820	28	8.600	12.560	9892	26	3.688	17.063	9964	32	25.748	20.358
9677	12	4.957	5.410	9749*	51	24.044	8.939	9821	19	12.174	12.068	9893	27	4.494	17.766	9965	26	2.048	21.806
9678	39	5.020	5.420	9750	25	25.566	8.634	9822	19	12.308	12.074	9894	12	4.808	17.285	9966	28	2.460	21.268
9679	20	5.462	5.144	9751	34	25.638	8.133	9823	35	12.769	12.764	9895	34	5.815	17.412	9967	11	4.863	21.666
9680	13	6.232	5.370	9752*	48	2.006	9.490	9824	25	14.070	12.475	9896	17	10.210	17.568	9968	25	4.972	21.210
9681	18	6.290	5.354	9753	28	2.468	9.586	9825	16	15.607	12.876	9897	13	10.302	17.249	9969	27	5.434	21.604
9682	17	11.250	5.140	9754	28	7.185	9.830	9826	14	15.722	12.924	9898	25	10.302	17.306	9970	13	6.159	21.314
9683	10	12.094	5.638	9755	13	7.210	9.060	9827	13	17.100	12.598	9899	27	15.298	17.524	9971	28	7.494	21.826
9684	14	12.241	5.708	9756	29	9.722	9.047	9828	11	17.653	12.880	9900	21	16.258	17.956	9972	33	7.702	21.016
9685	33	15.312	5.043	9757	11	10.723	9.740	9829	18	19.030	12.643	9901	19	16.537	17.854	9973	32	8.725	21.824
9686	31	16.424	5.944	9758	16	10.833	9.323	9830	48	20.652	12.850	9902	16	16.591	17.363	9974	16	11.320	21.088
9687	19	16.902	5.868	9759*	67	11.108	9.596	9831	18	20.746	12.050	9903	31	17.150	17.140	9975	19	11.886	21.998
9688	19	17.347	5.426	9760	29	13.596	9.878	9832	44	20.870	12.814	9904	14	17.326	17.783	9976	32	12.110	21.820
9689	30	17.918	5.384	9761	39	13.880	9.346	9833	29	23.171	12.044	9905	36	18.645	17.758	9977	28	12.122	21.754
9690	18	17.930	5.288	9762	40	13.960	9.552	9834	27	23.969	12.614	9906	27	18.828	17.766	9978	12	12.535	21.502
9691	16	18.050	5.002	9763	26	14.584	9.745	9835	10	1.588	13.736	9907	29	19.066	17.470	9979	19	12.613	21.886
9692	47	18.782	5.266	9764	20	15.868	9.160	9836	31	5.040	13.558	9908	25	20.893	17.180	9980	26	14.166	21.456
9693	30	22.160	5.494	9765	18	19.639	9.773	9837	28	10.501	13.940	9909	13	21.963	17.880	9981	29	14.910	21.520
9694*	50	25.067	5.727	9766	33	19.903	9.908	9838	29	11.545	13.824	9910	43	22.000	17.165	9982*	50	14.999	21.832
9695	44	0.578	6.824	9767	15	22.041	9.780	9839	29	15.385	13.082	9911	27	23.356	17.242	9983	27	15.350	21.320
9696	24	2.921	6.384	9768	31	23.085	9.060	9840	26	19.290	13.689	9912	30	24.866	17.490	9984	25	16.662	21.772
9697	21	4.316	6.876	9769	21	24.794	9.394	9841	30	19.428	13.056	9913	30	0.856	18.495	9985	32	17.214	21.516
9698	33	7.621	6.310	9770	30	25.250	9.862	9842	17	22.472	13.950	9914	17	3.698	18.147	9986	28	17.660	21.312
9699	29	9.011	6.786	9771*	50	25.600	9.520	9843	14	24.754	13.074	9915	10	4.501	18.139	9987	26	20.503	21.883
9700	29	10.340	6.382	9772	20	25.942	9.126	9844	26	24.878	13.672	9916	27	6.139	18.576	9988	26	20.594	21.011
9701	10	10.780	6.748	9773	18	0.392	10.714	9845	28	0.884	14.580	9917	43	8.820	18.440	9989	36	20.616	21.053
9702	33	10.984	6.554	9774	43	1.192	10.999	9846	32	4.299	14.962	9918	15	8.910	18.563	9990	42	22.256	21.034
9703	29	14.550	6.192	9775	23	5.740	10.600	9847	45	4.806	14.416	9919	35	8.940	18.968	9991	30	22.604	21.828
9704	31	14.798	6.100	9776	13	6.676	10.465	9848	11	5.866	14.429	9920	29	9.731	18.879	9992	21	23.260	21.093
9705	34	15.253	6.614	9777	27	6.865	10.138	9849	12	12.060	14.161	9921	11	12.400	18.560	9993	13	1.744	22.960
9706	13	17.730	6.182	9778	14	7.600	10.048	9850*	101	14.620	14.236	9922	19	12.845	18.708	9994	17	3.986	22.784
9707	26	19.492	6.545	9779	27	9.917	10.006	9851	17	14.760	14.020	9923	41	16.234	18.059	9995	19	4.840	22.346
9708	28	21.056	6.058	9780	17	12.566	10.990	9852	14	17.530	14.556	9924	16	17.174	18.714	9996	19	5.052	22.474
9709	26	21.360	6.234	9781	29	12.690	10.376	9853	34	21.568	14.480	9925	13	18.030	18.151	9997	45	5.395	22.611
9710	11	21.723	6.814	9782	15	13.200	10.184	9854*	48	22.017	14.749	9926	31	19.462	18.180	9998	29	9.717	22.260
9711	28	22.654	6.180	9783	28	17.800	10.394	9855	26	23.760	14.500	9927	14	23.066	18.330	9999	32	10.974	22.644
9712	48	22.776	6.119	9784	23	18.964	10.870	9856	24	24.720	14.893	9928	14	23.115	18.451	10000	10	11.555	22.946
9713	21	23.104	6.428	9785	14	19.464	10.820	9857*	88	2.488	15.054	9929	27	24.708	18.474	10001	25	12.102	22.512
9714	32	25.620	6.273	9786	16	20.998	10.540	9858	44	4.362	15.170	9930	39	0.257	19.960	10002	12	12.530	22.825
9715	28	3.436	7.832	9787	27	21.120	10.530	9859	24	5.115	15.238	9931	14	2.218	19.168	10003	14	13.778	22.430
9716	27	4.901	7.072	9788*	66	22.749	10.536	9860	26	6.658	15.908	9932	26	2.372	19.840	10004	33	19.638	22.090
9717	34	5.478	7.884	9789	35	24.910	10.182	9861	21	6.976	15.690	9933	29	4.458	19.590	10005	16	20.838	22.136
9718	19	7.450	7.226	9790	30	25.228	10.977	9862*	62	9.519	15.308	9934	19	9.355	19.774	10006	31	22.588	22.158
9719	33	7.697	7.265	9791	28	0.516	11.607	9863	26	9.682	15.184	9935	23	14.440	19.840				



10016	27	9.140	23.020	<div>R.A. 5<sup>h</sup> 24<sup>m</sup></div> <div>Plate 1720; 1920 Oct. 16.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-01740 +00193 +0528</div> <div>D E F</div> <div>-00192 -01781 -0765</div> <div>Mag.=16.1-1.05√d</div>	10156	30	8.663	4.986	10228	13	2.710	9.445	10300	32	25.749	12.807
10017	10	10.082	23.248		10157	20	10.612	4.992	10229	26	3.178	9.905	10301	10	0.617	13.082
10018	15	11.934	23.862		10158	28	11.041	4.919	10230*	41	3.516	9.555	10302	12	2.743	13.124
10019	31	13.238	23.530		10159	28	11.274	4.822	10231	20	3.857	9.154	10303	25	2.874	13.720
10020	26	14.892	23.924		10160	10	13.059	4.320	10232	27	6.624	9.346	10304	28	5.091	13.020
10021	25	16.663	23.963		10161	33	14.334	4.822	10233	19	7.158	9.335	10305	21	6.995	13.848
10022	30	17.223	23.840		10162	12	16.274	4.364	10234	14	10.095	9.646	10306	34	9.944	13.139
10023	41	17.419	23.546		10163	13	17.826	4.727	10235	19	11.353	9.726	10307	29	11.379	13.570
10024	29	17.904	23.438		10164*	40	24.930	4.156	10236	12	12.558	9.850	10308	12	12.577	13.384
10025	42	18.520	23.812		10165	17	25.092	4.081	10237	24	12.818	9.028	10309	20	14.634	13.836
10026*	52	19.570	23.152	10166	39	25.422	4.364	10238	38	13.828	9.842	10310	10	14.742	13.065	
10027	28	23.856	23.250	10167	25	25.577	4.642	10239	12	15.736	9.330	10311	19	16.058	13.458	
10028	49	23.892	23.305	10168	18	0.008	5.596	10240	15	17.384	9.997	10312	22	18.126	13.450	
10029	33	1.049	24.684	10169*	41	2.912	5.774	10241	20	18.711	9.686	10313*	39	22.602	13.020	
10030	16	1.816	24.177	10170	15	8.270	5.316	10242	11	18.878	9.789	10314	19	23.416	13.736	
10031	11	1.860	24.527	10171	32	12.876	5.576	10243	19	20.016	9.989	10315	10	24.602	13.452	
10032	40	2.026	24.916	10172	11	13.586	5.876	10244	21	20.433	9.482	10316	34	25.656	13.665	
10033	34	4.184	24.433	10173	25	16.194	5.568	10245	30	20.505	9.130	10317	48	25.762	13.741	
10034	15	4.784	24.530	10174	34	20.194	5.053	10246	20	21.309	9.686	10318	43	0.031	14.849	
10035	27	4.982	24.394	10175	12	22.306	5.240	10247	10	24.102	9.646	10319	14	0.476	14.042	
10036	18	9.058	24.318	10176	31	23.106	5.222	10248	14	24.872	9.739	10320	21	1.770	14.569	
10037	17	10.440	24.026	10177	42	24.879	5.904	10249*	52	0.682	10.625	10321	22	2.740	14.944	
10038	34	11.568	24.580	10178	32	25.312	5.606	10250	33	2.842	10.232	10322	15	6.863	14.708	
10039	19	12.108	24.225	10179	27	0.514	6.270	10251	10	3.176	10.120	10323	21	6.987	14.610	
10040	19	14.998	24.690	10180	39	0.630	6.205	10252	22	4.765	10.710	10324	31	7.701	14.896	
10041	23	15.366	24.994	10181	18	0.968	6.510	10253	29	7.045	10.564	10325	10	10.451	14.809	
10042	29	15.508	24.543	10182	31	3.480	6.308	10254*	80	7.648	10.358	10326	21	11.976	14.734	
10043	29	15.990	24.760	10183	12	4.644	6.426	10255	21	7.884	10.407	10327	31	12.898	14.996	
10044	16	16.700	24.170	10184	33	4.888	6.048	10256	23	8.376	10.848	10328	10	13.122	14.596	
10045	24	18.310	24.406	10185	16	5.220	6.587	10257	36	9.090	10.968	10329*	80	16.276	14.072	
10046	24	18.843	24.270	10186	20	8.570	6.847	10258*	180	12.738	10.777	10330	25	19.502	14.832	
10047	43	19.620	24.345	10187	23	10.254	6.078	10259	22	12.864	10.956	10331	31	20.800	14.817	
10048	25	19.812	24.416	10188	29	10.490	6.974	10260	26	13.396	10.602	10332	22	22.221	14.872	
10049	14	22.336	24.340	10189	33	11.892	6.066	10261	15	13.416	10.366	10333	20	22.697	14.462	
10050	12	22.390	24.000	10188	11	16.612	1.539	10262	23	13.698	10.892	10334	11	23.507	14.516	
10051	26	23.782	24.015	10189	15	18.220	1.687	10263	11	18.392	10.972	10335	20	24.034	14.811	
10052	16	2.426	25.016	10190*	11	18.516	1.024	10264	26	18.955	10.967	10336	18	24.886	14.244	
10053	25	5.204	25.904	10191	36	18.866	1.884	10265	14	18.970	10.609	10337	19	25.392	14.334	
10054	16	5.874	25.638	10192	28	22.409	1.430	10266	13	23.354	10.065	10338	14	25.440	14.596	
10055	34	8.930	25.225	10193	18	24.682	1.932	10267	34	24.438	10.306	10339*	43	1.865	15.250	
10056	32	9.030	25.130	10194	14	24.934	1.346	10268	43	0.576	11.826	10340	11	4.643	15.744	
10057	66	9.469	25.404	10195	12	25.972	1.848	10269	34	1.562	11.751	10341	25	5.976	15.634	
10058	13	9.928	25.095	10196	41	3.733	2.371	10270	33	1.756	11.224	10342	21	10.757	15.582	
10059	15	11.659	25.396	10197	17	6.756	2.412	10271	32	3.174	11.018	10343	12	12.536	15.656	
10060	15	15.414	25.660	10198	16	8.370	2.542	10272	25	5.696	11.110	10344*	50	13.092	15.252	
10061	34	15.740	25.166	10199	10	13.070	2.786	10273	34	6.702	11.340	10345	14	13.911	15.227	
10062	36	16.042	25.899	10200	22	14.178	2.539	10274	25	6.858	11.164	10346	10	14.820	15.876	
10063	36	18.520	25.627	10201	34	15.264	2.296	10275	12	7.050	11.610	10347	18	14.980	15.856	
10064	24	20.154	25.016	10202	18	15.434	2.024	10276	30	8.591	11.216	10348	11	20.070	15.558	
10065	52	21.552	25.860	10203	36	18.128	2.766	10277	32	10.198	11.954	10349*	45	20.347	15.062	
10066	11	22.210	25.804	10204	15	21.479	2.659	10278	19	10.920	11.820	10350	22	20.830	15.220	
10067	21	23.724	25.376	10205	13	25.398	2.892	10279*	45	11.664	11.365	10351	43	25.713	15.882	
10068	26	25.657	25.334	10206	22	2.452	3.556	10280	12	17.789	11.340	10352	21	1.545	16.188	
				10207	25	5.485	3.700	10281*	140	20.696	11.941	10353*	38	5.736	16.880	
				10208	21	8.153	3.819	10282	30	1.138	12.126	10354*	38	6.100	16.922	
				10209	31	8.490	3.092	10283	26	1.945	12.678	10355	23	6.104	16.270	
				10210	12	10.664	3.074	10284	13	8.775	12.814	10356	22	11.716	16.087	
				10211	30	14.640	3.259	10285	23	9.000	12.792	10357	16	12.746	16.562	
				10212	30	19.030	3.178	10286*	64	11.006	12.664	10358	13	12.750	16.529	
				10213	17	19.168	3.204	10287	44	12.225	12.076	10359	15	12.980	16.638	
				10214	25	19.398	3.712	10288	25	12.853	12.779	10360	20	16.530	16.454	



10372	10	6.170	17.651	10444	20	4.184	21.246	10516	25	21.500	25.098	10600	26	19.456	3.892	10672	10	9.043	8.238
10373	12	7.500	17.514	10445	25	6.850	21.332	10517	10	21.533	25.297	10601	24	19.728	3.128	10673	21	10.521	8.926
10374	14	8.460	17.884	10446	24	8.760	21.463					10602*	42	1.540	4.041	10674	18	10.922	8.698
10375	13	8.754	17.571	10447*	40	8.906	21.542					10603	40	3.038	4.222	10675	13	11.742	8.662
10376	10	9.047	17.950	10448	27	9.905	21.342					10604	17	3.200	4.498	10676	16	13.058	8.398
10377	36	9.414	17.376	10449	19	9.960	21.842					10605	9	4.452	4.358	10677	10	14.376	8.566
10378	12	9.605	17.006	10450	23	10.430	21.207					10606	11	10.638	4.564	10678	28	15.651	8.524
10379	12	10.608	17.486	10451	22	11.773	21.104					10607	11	11.566	4.226	10679	10	16.012	8.856
10380	30	18.360	17.436	10452*	39	13.593	21.798					10608	11	12.300	4.431	10680	23	17.359	8.826
10381	14	18.814	17.016	10453	17	14.630	21.466					10609	28	12.551	4.675	10681	24	17.702	8.336
10382	12	19.625	17.936	10454	19	18.432	21.090					10610	36	12.722	4.038	10682	9	17.867	8.138
10383*	42	20.764	17.694	10455	12	18.990	21.190					10611	31	14.379	4.656	10683*	56	18.060	8.664
10384	12	20.934	17.012	10456	17	21.079	21.628					10612	34	15.521	4.014	10684	17	18.154	8.196
10385	33	21.064	17.049	10457	29	24.466	21.818					10613	14	16.488	4.250	10685	29	20.382	8.401
10386*	44	24.327	17.072	10458	16	25.464	21.327					10614	8	19.680	4.038	10686	9	20.490	8.188
10387	29	25.404	17.521	10459	25	0.746	22.246					10615	19	20.080	4.466	10687	17	20.882	8.411
10388	10	1.150	18.411	10460	13	1.040	22.868					10616	13	22.258	4.155	10688	19	23.879	8.878
10389	20	2.795	18.525	10461	25	1.290	22.936					10617	14	23.270	4.032	10689	21	25.144	8.931
10390	28	4.756	18.552	10462	35	2.596	22.456					10618	14	24.042	4.229	10690	10	2.589	9.607
10391	31	8.112	18.104	10463	19	4.994	22.046					10619*	66	24.635	4.728	10691*	52	6.094	9.108
10392	10	8.163	18.610	10464	33	6.055	22.734					10620	26	25.203	4.124	10692	18	6.313	9.678
10393	14	10.269	18.170	10465	11	13.056	22.202					10621	26	0.740	5.123	10693	8	6.789	9.169
10394*	84	11.074	18.104	10466	20	14.262	22.694					10622	45	2.520	5.772	10694	9	7.334	9.868
10395	28	11.934	18.924	10467	28	15.442	22.094					10623	31	2.952	5.468	10695	14	9.318	9.330
10396	14	14.024	18.126	10468	25	16.825	22.921					10624	9	4.781	5.334	10696	37	10.776	9.708
10397	24	14.626	18.354	10469	22	17.650	22.710					10625	19	5.266	5.376	10697	30	12.511	9.048
10398	20	16.390	18.855	10470	11	20.040	22.920					10626	11	8.402	5.639	10698	17	17.259	9.539
10399	20	16.608	18.785	10471	36	22.367	22.502					10627	17	8.449	5.432	10699	10	17.540	9.952
10400	24	18.176	18.970	10472	40	22.754	22.956					10628	11	8.580	5.199	10700	33	19.635	9.500
10401	10	18.204	18.636	10473	28	23.518	22.910					10629	11	11.726	5.233	10701	18	19.890	9.008
10402	24	19.340	18.070	10474	21	24.840	22.212					10630	17	12.706	5.312	10702	11	21.142	9.089
10403*	43	19.880	18.378	10475	40	25.676	22.398					10631	15	12.749	5.092	10703	14	21.170	9.866
10404	13	20.528	18.898	10476	26	25.740	22.804					10632	16	16.807	5.743	10704	22	21.846	9.116
10405	10	20.860	18.120	10477	24	2.032	23.316					10633	21	16.952	5.300	10705	14	25.471	9.496
10406	29	22.422	18.795	10478	40	2.065	23.368					10634	25	19.950	5.141	10706	33	2.165	10.181
10407	16	22.900	18.108	10479	13	3.415	23.505					10635	10	22.818	5.036	10707	35	7.194	10.212
10408	15	23.570	18.117	10480	10	4.581	23.601					10636	8	23.382	5.952	10708	20	8.676	10.850
10409	27	0.467	19.745	10481	26	8.042	23.838					10637	40	23.814	5.148	10709	13	10.773	10.002
10410	10	0.950	19.846	10482	19	8.586	23.544					10638	18	2.122	6.956	10710	18	10.906	10.004
10411	15	1.413	19.864	10483	20	8.706	23.263					10639	37	3.514	6.032	10711	23	11.795	10.076
10412	27	2.074	19.417	10484	20	12.872	23.316					10640*	44	3.776	6.540	10712	20	13.315	10.812
10413	23	5.630	19.280	10485	24	16.712	23.254					10641	14	6.130	6.652	10713	18	14.089	10.553
10414	20	6.814	19.365	10486	30	19.458	23.046					10642	13	6.200	6.786	10714	15	14.232	10.372
10415	32	9.004	19.200	10487	24	20.120	23.968					10643	13	7.635	6.194	10715	18	14.328	10.152
10416	25	10.422	19.169	10488	12	20.480	23.384					10644	17	12.787	6.834	10716	19	18.061	10.973
10417	10	10.809	19.732	10489	10	22.202	23.844					10645	18	14.075	6.312	10717	15	18.368	10.348
10418	10	11.276	19.852	10490	24	1.974	24.082					10646	31	14.550	6.887	10718	16	20.884	10.056
10419	17	15.112	19.891	10491	12	7.862	24.500					10647	36	20.841	6.108	10719	30	2.557	11.891
10420	30	20.097	19.114	10492	10	8.379	24.169					10648*	86	22.126	6.374	10720	13	5.601	11.548
10421	23	1.106	20.726	10493	14	10.867	24.878					10649	60	22.155	6.394	10721	10	8.394	11.039
10422	31	1.229	20.234	10494	32	12.509	24.265					10650	9	23.900	6.476	10722	19	10.546	11.256
10423	21	2.374	20.010	10495	15	12.822	24.690					10651	23	25.568	6.559	10723	19	12.830	11.347
10424	31	3.868	20.367	10496	24	13.254	24.570					10652	17	3.182	7.700	10724	11	12.850	11.586
10425	19	4.244	20.004	10497	12	17.048	24.183					10653	10	5.332	7.010	10725	11	13.128	11.502
10426	10	5.964	20.570	10498	13	17.136	24.210					10654	9	5.612	7.523	10726	14	13.588	11.786
10427	25	6.234	20.407	10499	34	17.818	24.030					10655	11	10.402	7.408	10727	19	15.278	11.473
10428	23	7.574	20.702	10500	11	19.428	24.973					10656	24	10.828	7.208	10728	13	18.228	11.164
10429	24	10.252	20.147	10501	22	1.944	25.444					10657	10	14.918	7.402	10729	16	19.316	11.740
10430	10	10.612	20.254	10502	27	3.874	25.366					10658	39	15.076	7.341	10730	13	20.578	11.940
10431	24	11.495	20.250	10503	19	6.638	25.930					10659	12	17.167	7.930	10731	27	25.405	11.114
10432	15	11.513	20.317	10504	18	6.907	25.397					10660	9	19.764	7.093	10732*	40	0.378	12.929
10433	31	13.804	20.800	10505	24	8.945	25.370					10661	10	19.914	7.474	10733	28	0.904	12.718
10434	20	14.530	20.560	10506	22	10.838	25.328					10662	19	20.539	7.057	10734	15	1.390	12.530
10435	19	16.533	20.834	10507	28	12.022	25.008					10663	12	20.873	7.784	10735	25	3.521	12.658
10436	10	17.340	20.710	10508	19	13.280	25.469					10664	18	21.124	7.295	10736	19	6.895	12.626
10437	10	19.851	20.521	10509	22	13.546	25.178					10665	43	21.426	7.838	10737	43	7.474	12.904
10438	10	19.900	20.248	10510	24	13.751	25.064					10666	37	25.679	7.808	10738	15	10.047	12.534
10439*	40	20.226	20.381	10511	24	15.048	25.404					10667	10	2.028	8.388	10739	11	10.433	12.432
10440	40	0.388	21.128	10512*	37	15.823	25.160					10668	35	2.264	8.721	10740	19	10.708	12.095
10441	33	0.754	21.920	10513	15	16.671	25.066					10669	17						



10744	23	18.477	12.498	10816	18	21.132	16.570	10888	32	0.326	22.414	10955	17	14.369	0.785	11027	37	19.366	3.556
10745	9	21.538	12.920	10817*	40	22.566	16.443	10889	45	0.718	22.860	10956	21	15.460	0.483	11028	29	20.824	3.920
10746	18	22.622	12.152	10818	12	23.146	16.920	10890	17	1.484	22.800	10957	12	17.697	0.407	11029	49	21.694	3.761
10747*	38	24.113	12.758	10819	12	25.682	16.500	10891	13	2.792	22.078	10958	16	17.910	0.704	11030	36	23.338	3.245
10748	12	1.207	13.628	10820	19	3.268	17.378	10892	46	3.628	22.248	10959	17	19.066	0.182	11031	28	25.224	3.104
10749	32	3.445	13.518	10821	18	5.332	17.891	10893	15	3.705	22.652	10960	28	19.516	0.916	11032	18	0.306	4.236
10750*	53	3.549	13.592	10822	13	7.226	17.482	10894	22	4.868	22.702	10961	16	20.196	0.543	11033	23	1.320	4.106
10751	11	4.037	13.510	10823	11	7.384	17.372	10895	18	6.466	22.688	10962	31	21.956	0.416	11034	28	2.090	4.294
10752	16	4.442	13.268	10824	18	7.840	17.320	10896	15	9.086	22.954	10963	16	22.080	0.265	11035*	60	2.676	4.794
10753	23	5.180	13.758	10825	15	9.850	17.782	10897	17	9.142	22.440	10964	48	22.738	0.944	11036	39	3.250	4.180
10754	27	5.457	13.483	10826	9	11.297	17.356	10898	11	9.775	22.480	10965	40	24.236	0.033	11037	11	6.964	4.804
10755	9	5.498	13.488	10827	28	12.117	17.306	10899	45	10.048	22.678	10966	14	24.987	0.195	11038	28	7.036	4.692
10756	20	6.096	13.150	10828	12	12.152	17.936	10900	19	11.024	22.9.9	10967	13	25.380	1.304	11039	14	7.424	4.125
10757	13	6.408	13.706	10829*	37	13.151	17.536	10901	23	11.660	22.608	10968	38	5.036	1.763	11040	18	7.636	4.200
10758	15	8.120	13.205	10830	10	14.250	17.096	10902	10	15.062	22.026	10969	32	5.280	1.255	11041	10	7.774	4.710
10759	11	9.920	13.557	10831	18	15.298	17.508	10903	13	19.682	22.989	10970	18	5.599	1.255	11042	20	10.000	4.296
10760	9	11.011	13.738	10832	10	15.970	17.592	10904	17	20.213	22.526	10971	38	7.389	1.751	11043	18	10.126	4.474
10761	16	12.010	13.316	10833	15	18.082	17.956	10905	21	23.606	22.052	10972	16	7.455	1.918	11044	12	11.693	4.634
10762	8	12.296	13.550	10834	22	19.284	17.504	10906	14	24.700	22.806	10973	38	7.766	1.044	11045	17	11.977	4.824
10763	13	15.048	13.631	10835	12	20.141	17.928	10907	21	4.456	23.950	10974	16	8.616	1.866	11046	15	13.590	4.756
10764	21	15.554	13.251	10836	9	20.349	17.995	10908	43	4.535	23.894	10975	28	9.576	1.814	11047	26	13.704	4.988
10765	10	16.782	13.268	10837	13	23.888	17.140	10909	36	8.636	23.090	10976	17	9.826	1.312	11048	18	14.235	4.064
10766	40	18.136	13.830	10838	19	0.310	18.705	10910	11	9.043	23.106	10977	21	11.680	1.598	11049	14	14.738	4.526
10767	26	18.566	13.387	10839	11	1.445	18.004	10911	11	9.762	23.992	10978	22	12.182	1.130	11050	30	15.455	4.986
10768	9	22.260	13.678	10840	26	5.828	18.748	10912	21	15.072	23.908	10979	32	14.576	1.034	11051	17	17.130	4.275
10769*	46	22.572	13.450	10841	20	7.567	18.487	10913	8	20.459	23.129	10980	13	15.336	1.224	11052	38	19.545	4.688
10770	12	24.768	13.362	10842	40	7.810	18.010	10914	27	22.988	23.182	10981	14	15.612	1.566	11053	17	20.706	4.646
10771	9	24.916	13.548	10843	21	10.967	18.808	10915	15	23.725	23.815	10982	16	16.332	1.162	11054	29	22.204	4.674
10772	10	25.114	13.186	10844	26	13.932	18.479	10916	16	24.926	23.501	10983	12	17.596	1.686	11055	18	23.244	4.072
10773	13	25.334	13.172	10845	10	18.756	18.572	10917	40	4.612	24.319	10984	36	19.746	1.174	11056	18	23.936	4.124
10774	10	0.035	14.788	10846	17	19.438	18.287	10918	14	7.452	24.093	10985	24	20.626	1.894	11057	15	25.524	4.108
10775	11	0.504	14.368	10847	11	20.200	18.292	10919	17	8.770	24.228	10986	78	23.419	1.232	11058	17	25.812	4.454
10776	11	1.846	14.692	10848	13	22.291	18.948	10920	35	9.518	24.530	10987	19	25.186	1.045	11059	17	0.875	5.118
10777	16	2.687	14.108	10849	18	25.130	18.048	10921	28	17.042	24.950	10988*	54	2.814	2.168	11060	40	1.868	5.216
10778	14	3.196	14.190	10850	13	5.088	19.910	10922	17	18.314	24.215	10989	39	7.519	2.654	11061	20	2.736	5.896
10779	10	3.250	14.450	10851	10	6.423	19.640	10923	15	19.640	24.768	10990*	60	7.965	2.992	11062	19	4.334	5.703
10780	14	6.480	14.467	10852	11	6.776	19.816	10924	12	22.914	24.296	10991	42	12.296	2.835	11063	35	4.465	5.824
10781	8	7.736	14.852	10853*	38	6.884	19.570	10925	31	4.134	25.013	10992*	9	13.196	2.580	11064	16	5.392	5.036
10782	14	8.404	14.502	10854	17	10.938	19.487	10926	17	6.933	25.933	10993	16	14.378	2.374	11065	22	6.065	5.568
10783*	58	9.060	14.054	10855	18	13.248	19.761	10927	18	7.982	25.132	10994	44	14.486	2.766	11066	28	7.171	5.894
10784	16	13.887	14.452	10856	12	23.762	19.157	10928	14	12.508	25.641	10995	13	15.626	2.072	11067	12	8.408	5.382
10785	8	14.117	14.338	10857	66	25.724	19.407	10929	14	14.732	25.342	10996*	58	15.668	2.103	11068	16	8.750	5.216
10786	16	19.570	14.994	10858	13	4.023	20.164	10930	12	15.478	25.568	10997	16	18.162	2.024	11069	20	10.256	5.668
10787	12	20.575	14.156	10859	12	10.428	20.326	10931	31	17.723	25.422	10998	15	19.092	2.615	11070*	56	10.800	5.646
10788	32	22.034	14.871	10860	10	10.522	20.306	10932	12	21.753	25.627	10999	23	19.336	2.736	11071*	57	10.906	5.308
10789	31	24.526	14.049	10861	9	11.197	20.526	10933	28	22.368	25.148	11000	14	19.566	2.190	11072	15	12.844	5.627
10790	19	24.816	14.934	10862	14	12.802	20.318	10934	10	22.712	25.665	11001	14	20.073	2.136	11073	14	14.402	5.935
10791*	46	3.542	15.733	10863*	40	13.674	20.141					11002	20	21.667	2.358	11074	31	16.186	5.482
10792	11	5.852	15.212	10864	35	13.948	20.513					11003	23	23.147	2.052	11075	10	17.162	5.574
10793*	51	6.172	15.343	10865	11	15.320	20.747					11004	15	0.256	3.076	11076	30	18.114	5.404
10794	21	9.498	15.021	10866	15	16.732	20.299					11005	13	1.168	3.608	11077	19	20.579	5.994
10795	30	13.340	15.508	10867*	45	16.982	20.448					11006	16	1.376	3.586	11078	10	20.883	5.818
10796	17	15.423	15.668	10868	18	18.625	20.922					11007	18	3.278	3.506	11079	19	21.816	5.406
10797	14	15.836	15.642	10869*	43	22.046	20.294					11008	12	4.784	3.944	11080	14	23.519	5.786
10798	16	17.785	15.478	10870	14	22.165	20.926					11009	42	5.150	3.168	11081	23	25.649	5.785
10799	39	20.212	15.170	10871	13	24.344	20.070					11010	10	7.826	3.651	11082*	100	0.186	6.461
10800	11	21.968	15.990	10872	19	2.412	21.690					11011	14	8.876	3.980	11083	68	0.216	6.478
10801	10	21.997	15.984	10873	10	3.400	21.180					11012	15	8.962	3.856	11084	13	0.298	6.448
10802	33	22.748	15.748	10874	18	5.458	21.860					11013	13	8.984	3.512	11085	22	1.975	6.544
10803	24	24.708	15.955	10875	20	5.738	21.306					11014	11	9.549	3.593	11086	13	2.424	6.284
10804	35	24.776	15.872	10876	31	5.976	21.552					11015	17	9.756	3.712	11087	32	3.638	6.610
10805*	49	24.792	15.714	10877	31	8.343	21.381					11016*	62	10.086	3.359	11088	18	4.034	6.706
10806	16	0.613	16.003	10878	10	9.106	21.932					11017	12	10.468	3.458	11089	40	4.544	6.276
10807*	48	2.178	16.950	10879	14	9.571	21.501					11018	28	10.948	3.989	11090	15	6.114	6.346
10808	11	5.257	16.907	10880	14	11.980	21.486												



11099	14	11-184	6-544	11171	17	20-875	8-095	11243	16	2-702	11-376	11315	17	12-706	13-446	11387	13	25-406	15-058
11100	18	11-378	6-147	11172	12	22-206	8-745	11244	14	3-275	11-335	11316	17	13-032	13-622	11388	24	25-471	15-865
11101	14	12-944	6-126	11173	14	22-605	8-816	11245	36	3-520	11-166	11317	24	13-834	13-174	11389	16	0-128	16-078
11102	22	13-062	6-084	11174	14	24-050	8-771	11246	20	4-734	11-659	11318	24	13-854	13-204	11390	15	0-160	16-074
11103	14	13-225	6-926	11175	17	24-578	8-935	11247	16	4-954	11-488	11319	16	14-606	13-634	11391*	39	0-728	16-526
11104	44	14-592	6-804	11176*	56	24-694	8-404	11248	21	6-479	11-606	11320	13	14-628	13-092	11392	14	1-316	16-995
11105	37	14-868	6-504	11177	17	25-684	8-616	11249	17	7-734	11-786	11321	13	14-839	13-966	11393	28	2-868	16-014
11106	17	14-996	6-926	11178	12	0-771	9-666	11250	16	7-850	11-386	11322	14	14-986	13-462	11394	18	3-849	16-552
11107	15	15-196	6-854	11179	20	1-571	9-549	11251	17	10-200	11-804	11323	18	15-110	13-335	11395	12	4-354	16-566
11108	13	16-182	6-228	11180	18	4-154	9-374	11252	14	10-904	11-296	11324	13	15-224	13-204	11396	17	5-116	16-532
11109	44	17-206	6-790	11181	14	4-256	9-246	11253	23	10-994	11-996	11325	15	16-492	13-472	11397	37	6-390	16-234
11110*	44	19-025	6-482	11182	18	6-736	9-198	11254	16	11-390	11-654	11326	38	17-966	13-292	11398	12	9-407	16-694
11111	32	19-692	6-100	11183	13	7-327	9-144	11255	15	11-448	11-864	11327*	72	19-346	13-040	11399	13	9-472	16-982
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11113	16	23-992	6-226	11185	16	10-439	9-244	11257	15	12-398	11-755	11329	22	20-170	13-466	11401*	94	11-719	16-196
11114	31	24-352	6-082	11186	22	10-442	9-482	11258	19	12-940	11-284	11330	14	21-026	13-488	11402	15	14-860	16-805
11115	39	3-760	7-858	11187	13	11-134	9-676	11259	13	13-220	11-444	11331	17	21-215	13-356	11403	20	15-046	16-756
11116	21	6-486	7-628	11188	16	11-816	9-040	11260	29	15-830	11-574	11332	18	23-216	13-929	11404	18	15-494	16-722
11117	38	7-018	7-185	11189	12	11-875	9-116	11261	21	16-652	11-405	11333	18	24-104	13-204	11405	15	17-356	16-182
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11120	39	8-336	7-414	11192	14	13-448	9-813	11264	18	19-430	11-376	11336	36	2-668	14-114	11408	17	17-840	16-416
11121	21	10-140	7-604	11193*	50	13-824	9-304	11265	12	20-484	11-320	11337	16	2-864	14-904	11409	23	18-517	16-474
11122	10	10-560	7-874	11194*	39	14-110	9-604	11266	24	20-958	11-189	11338	26	2-970	14-995	11410	11	19-055	16-422
11123	17	11-344	7-000	11195	20	14-234	9-134	11267	14	21-021	11-396	11339	13	3-286	14-162	11411	18	19-128	16-282
11124	17	11-744	7-250	11196	19	15-386	9-816	11268	15	25-020	11-126	11340	15	4-922	14-896	11412	39	19-160	16-206
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11126	38	12-870	7-050	11198	19	16-026	9-472	11270*	38	2-240	12-824	11342	18	11-976	14-382	11414	26	19-976	16-915
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11130	12	13-349	7-986	11202	29	17-664	9-550	11274	23	10-258	12-392	11346	21	17-104	14-676	11418	16	21-886	16-910
11131	15	14-342	7-386	11203	30	17-736	9-166	11275	19	10-675	12-348	11347	20	17-700	14-149	11419	18	21-956	16-166
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11145	13	2-702	8-837	11217	13	25-806	9-911	11289	16	21-526	12-516	11361	14	3-448	15-926	11433	15	8-138	17-916
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11147	28	3-239	8-986	11219	32	4-244	10-954	11291	16	23-000	12-814	11363	13	4-125	15-664	11435*	94	11-510	17-954
11148	15	5-200	8-382	11220	16	5-037	10-464	11292	21	23-488	12-574	11364	28	4-946	15-062	11436	24	13-350	17-084
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11150	16	8-254	8-474	11222	18	8-136	10-604	11294	16	23-798	12-226	11366	12	6-526	15-750	11438	15	15-297	17-396
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11155*	64	10-106	8-958	11227	14	12-935	10-626	11299	10	0-734	13-838	11371	13	11-080	15-969	11443	17	23-446	17-971
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11159	37	11-898	8-646	11231	26	21-560	10-516	11303	17	3-250	13-245	11375	22	13-606	15-946	11447	16	1-900	18-352
11160	15	13-068	8-266	11232	23	21-946	10-278	11304	18	3-470	13-226	11376	16	14-294	15-974	11448	30	3-312	18-106
11161	11	13-336	8-288																



11459	17	16.615	18.934	11531	21	22.226	20.015	11603	22	6.640	23.784	11675	24	16.720	25.363	11740*	57	4.028	2.220
11460	15	17.026	18.116	11532	11	22.356	20.265	11604	15	7.484	23.063	11676	21	17.026	25.946	11741	32	4.409	2.012
11461	37	17.410	18.452	11533*	40	22.866	20.646	11605	26	7.682	23.054	11677	16	18.944	25.745	11742	11	5.316	2.649
11462	13	18.041	18.456	11534	28	23.165	20.276	11606	27	8.536	23.496	11678	54	19.284	25.904	11743*	53	6.772	2.129
11463	25	18.118	18.034	11535	26	25.814	20.390	11607	24	10.004	23.224	11679	37	20.478	25.006	11744	10	7.191	2.519
11464	21	18.660	18.042	11536	19	0.376	21.012	11608	14	10.956	23.046	11680	17	21.425	25.267	11745	36	7.358	2.821
11465	24	19.223	18.201	11537	11	0.425	21.096	11609	21	10.984	23.392	11681	30	21.602	25.364	11746	39	7.480	2.735
11466	15	19.335	18.816	11538	22	0.656	21.920	11610	19	11.535	23.112	11682	15	22.284	25.270	11747	15	8.596	2.338
11467	13	19.568	18.888	11539	10	3.904	21.992	11611	17	11.763	23.336	11683	78	24.150	25.160	11748	11	9.048	2.708
11468	24	19.696	18.195	11540	19	5.622	21.216	11612	40	12.336	23.689					11749	14	9.714	2.537
11469	13	19.906	18.790	11541	16	8.634	21.485	11613	14	12.850	23.012					11750	24	12.034	2.788
11470	20	20.743	18.614	11542	18	9.916	21.290	11614	38	15.756	23.354					11751	27	12.850	2.252
11471	22	21.844	18.518	11543	11	10.166	21.148	11615	14	16.797	23.936					11752	21	12.888	2.869
11472	23	22.266	18.748	11544	30	10.602	21.488	11616	15	18.020	23.734					11753	11	13.212	2.566
11473	18	23.547	18.536	11545	16	13.592	21.628	11617	14	19.056	23.364					11754	28	13.531	2.454
11474	29	24.142	18.445	11546*	39	14.685	21.064	11618	39	20.706	23.796					11755	40	14.688	2.762
11475	23	25.385	18.285	11547	11	16.086	21.605	11619	36	20.896	23.424					11756*	51	16.089	2.660
11476	17	0.481	19.034	11548	14	17.280	21.611	11620	16	22.135	23.205					11757	23	16.390	2.495
11477	18	1.956	19.226	11549	16	17.368	21.254	11621	39	22.246	23.040					11758	10	18.966	2.965
11478*	78	3.908	19.455	11550*	52	18.586	21.614	11622	33	23.384	23.528					11759	14	20.778	2.556
11479*	39	5.025	19.266	11551	22	18.663	21.233	11623	25	23.509	23.896					11760	12	22.506	2.829
11480	17	5.166	19.340	11552	36	21.078	21.282	11624	19	24.102	23.794					11761	10	22.614	2.729
11481	12	6.646	19.176	11553	17	21.371	21.714	11625	18	24.915	23.684					11762	23	23.509	2.788
11482	20	7.639	19.365	11554	18	22.624	21.686	11626	32	1.159	24.376					11763*	37	24.726	2.184
11483*	38	8.034	19.348	11555	38	23.716	21.064	11627	11	2.387	24.034					11764	18	25.636	2.779
11484	22	8.340	19.638	11556	13	24.754	21.432	11628	19	3.591	24.271					11765	25	1.290	3.376
11485	20	8.350	19.684	11557	33	1.826	22.126	11629	12	3.947	24.612					11766	21	3.178	3.224
11486	24	10.354	19.742	11558	33	1.966	22.044	11630	23	6.239	24.984					11767	42	6.418	3.882
11487	25	10.770	19.274	11559	13	2.326	22.846	11631	15	7.795	24.158					11768	11	8.368	3.090
11488	17	11.424	19.492	11560	27	2.931	22.866	11632	32	8.934	24.364					11769	29	10.031	3.652
11489	16	11.884	19.884	11561	21	3.088	22.424	11633	21	9.664	24.916					11770	27	11.392	3.180
11490	15	12.790	19.626	11562	22	5.206	22.354	11634	14	10.173	24.789					11771	14	11.902	3.662
11491	23	16.182	19.743	11563	12	6.408	22.528	11635	20	10.493	24.306					11772	41	12.257	3.058
11492	20	17.250	19.166	11564	13	7.656	22.365	11636	14	10.742	24.654					11773	41	14.120	3.039
11493	18	17.360	19.092	11565	27	9.154	22.588	11637	23	12.914	24.994					11774	11	14.252	3.866
11494	16	18.142	19.224	11566	10	10.304	22.056	11638	32	12.954	24.095					11775	10	14.607	3.846
11495	15	19.620	19.216	11567	14	10.828	22.796	11639	23	12.983	24.335					11776	16	15.479	3.346
11496	32	20.943	19.290	11568	19	10.926	22.392	11640	48	13.104	24.120					11777	29	15.668	3.868
11497*	55	20.954	19.176	11569	27	12.026	22.312	11641	15	14.078	24.435					11778	24	18.671	3.686
11498	15	22.788	19.064	11570	19	12.574	22.458	11642	26	14.276	24.946					11779*	43	20.852	3.966
11499	19	22.844	19.174	11571	37	12.860	22.476	11643	19	14.498	24.788					11780	13	21.179	3.342
11500	20	23.153	19.174	11572	16	12.900	22.846	11644	13	15.666	24.296					11781	24	22.497	3.060
11501	19	23.246	19.044	11573	15	12.924	22.031	11645	13	15.828	24.695					11782	19	23.090	3.151
11502*	39	0.247	20.381	11574	37	13.548	22.078	11646	18	15.985	24.066					11783	29	23.976	3.918
11503	16	0.694	20.695	11575	36	13.834	22.586	11647	13	18.468	24.582					11784	26	24.868	3.620
11504	11	1.244	20.405	11576	14	14.036	22.626	11648	28	18.564	24.374					11785	17	0.162	4.806
11505	17	2.094	20.676	11577	14	15.601	22.605	11649	38	19.755	24.343					11786	10	3.768	4.572
11506	15	2.296	20.774	11578	16	18.244	22.484	11650	15	20.191	24.804					11787	38	4.723	4.076
11507	23	2.546	20.135	11579	36	18.414	22.955	11651	14	20.846	24.846					11788	37	4.866	4.858
11508	11	2.606	20.428	11580*	56	18.514	22.594	11652	18	21.158	24.167					11789	40	5.088	4.552
11509	15	3.355	20.516	11581	16	18.752	22.435	11653	26	0.015	25.720					11790	18	5.236	4.770
11510	16	3.894	20.000	11582	13	19.214	22.498	11654	16	0.317	25.578					11791	32	9.738	4.933
11511	37	5.379	20.137	11583	22	19.458	22.598	11655	41	0.619	25.234					11792*	47	10.023	4.474
11512	15	6.556	20.802	11584*	62	19.610	22.534	11656	20	0.976	25.746					11793	28	11.332	4.765
11513	23	7.372	20.858	11585	21	21.186	22.344	11657	13	2.816	25.338					11794	11	13.322	4.529
11514	16	11.264	20.524	11586	36	21.340	22.200	11658	18	2.924	25.666					11795	11	14.130	4.041
11515	23	12.276	20.716	11587	15	22.463	22.311	11659	13	5.754	25.176					11796	26	15.670	4.849
11516	15	12.484	20.295	11588	17	23.222	22.164	11660	16	7.796	25.744					11797	28	15.716	4.534
11517	25	13.884	20.744	11589	16	23.975	22.482	11661	20	9.203	25.648					11798	22	16.136	4.050
11518	21	14.436	20.658	11590*	54	24.010	22.374	11662	18	9.754	25.354					11799	10	16.841	4.040
11519*	128	14.487	20.627	11591	42	1.217	23.264	11663	34	9.854	25.816					11800	14	17.891	4.734
11520	15	14.795	20.194	11592	24	1.966	23.886	11664	30	10.058	25.136					11801	23	20.608	4.472
11521	28	15.336	20.556	11593	16	2.284	23.098	11665	34	10.600	25.398					11802	14	21.350	4.902
11522	23	16.282	20.789	11594	21	2.299	23.125	11666	17	12.408	25.726					11803*	51	24.202	4.852
11523	18	16.876	20.402	11595	24	2.364	23.382	11667	14	13.504	25.019					11804	21	3.610	5.905
11524	12	18.266	20.736	11596	16	2.710	23.688	11668	36	13.643	25.676					11805*	55	6.276	5.068
11525	20	18.856	20.054	11597	35	3.164	23.564	11669	16	14.244	25.584					11806	33	7.942	5.801
11526	15	19.122	20.526	11598	15	5.163	23.384	11670	10	15.089	25.280					11807	32	9.798	5.501
11527	30	20.321	20.917	11599	12	5.486	23.135												



11812	23	15.584	5.180	11884	27	4.491	9.144	11956	22	12.927	12.896	12028	13	11.212	16.925	12100	11	12.347	19.494
11813	38	17.586	5.776	11885	13	5.142	9.143	11957	16	15.405	12.440	12029	21	13.816	16.336	12101	29	14.071	19.952
11814	36	17.780	5.438	11886	44	5.300	9.601	11958	10	17.104	12.162	12030	11	13.896	16.111	12102	11	16.540	19.386
11815	15	22.916	5.804	11887	15	5.552	9.005	11959	11	17.368	12.830	12031	20	14.192	16.986	12103	11	17.355	19.566
11816	27	24.270	5.526	11888	14	6.800	9.584	11960	36	20.467	12.186	12032	34	14.978	16.112	12104	30	18.684	19.651
11817	28	25.739	5.747	11889	13	7.368	9.324	11961	46	23.328	12.926	12033	12	15.810	16.764	12105	27	18.817	19.372
11818	38	1.913	6.463	11890	41	7.434	9.430	11962	10	2.086	13.328	12034	20	16.445	16.707	12106	11	23.902	19.330
11819	13	1.953	6.352	11891	12	11.650	9.949	11963	13	3.582	13.838	12035	12	17.362	16.526	12107	16	24.040	19.592
11820	19	2.310	6.208	11892	32	11.822	9.875	11964	22	6.983	13.149	12036	24	18.062	16.102	12108	17	24.708	19.260
11821	12	5.226	6.042	11893	44	14.512	9.267	11965	28	9.270	13.084	12037	49	19.598	16.032	12109	11	0.236	20.149
11822	31	6.162	6.998	11894	13	14.600	9.850	11966	32	10.760	13.687	12038	16	21.542	16.311	12110	38	0.872	20.779
11823	13	8.596	6.320	11895	37	16.592	9.167	11967	16	11.368	13.978	12039	13	24.298	16.190	12111	19	1.172	20.404
11824	11	10.496	6.090	11896	25	16.960	9.036	11968	20	13.118	13.743	12040	15	24.536	16.530	12112	13	1.800	20.418
11825	21	12.234	6.480	11897	14	17.454	9.072	11969	32	13.205	13.701	12041	42	4.334	17.584	12113	19	3.820	20.510
11826	13	12.292	6.473	11898	11	18.303	9.792	11970	10	13.308	13.318	12042	10	4.746	17.438	12114	21	5.275	20.036
11827	13	12.559	6.331	11899	27	19.164	9.138	11971	11	13.970	13.652	12043	44	6.641	17.597	12115	50	5.440	20.778
11828	17	13.036	6.121	11900	41	0.878	10.570	11972	14	14.440	13.928	12044	14	7.768	17.640	12116	24	6.108	20.779
11829	22	15.717	6.888	11901	14	2.038	10.126	11973	10	18.451	13.506	12045	24	8.144	17.216	12117	45	6.300	20.256
11830	14	16.572	6.628	11902	14	2.186	10.772	11974	12	18.709	13.920	12046	15	11.137	17.102	12118	10	9.108	20.248
11831	26	16.590	6.322	11903	32	3.312	10.758	11975	13	19.162	13.157	12047	27	14.480	17.230	12119	22	9.216	20.562
11832	22	17.198	6.678	11904	12	3.532	10.450	11976	16	19.224	13.692	12048	25	14.628	17.488	12120	38	9.348	20.886
11833	31	18.684	6.352	11905	17	6.523	10.963	11977	13	19.668	13.301	12049	13	15.538	17.338	12121	11	9.388	20.508
11834	17	20.218	6.462	11906	11	7.218	10.842	11978	39	23.684	13.568	12050	13	15.792	17.604	12122	26	9.849	20.718
11835	37	20.444	6.878	11907	39	7.318	10.668	11979	11	24.804	13.888	12051	10	16.902	17.160	12123	18	10.230	20.552
11836	22	23.978	6.786	11908	34	8.170	10.106	11980	36	0.154	14.894	12052	19	16.918	17.782	12124	46	11.032	20.120
11837	11	0.254	7.630	11909	51	10.966	10.842	11981	46	0.470	14.230	12053	11	18.227	17.335	12125	31	11.348	20.654
11838	21	3.352	7.621	11910	12	12.314	10.442	11982	18	0.533	14.780	12054	25	19.770	17.232	12126	10	11.866	20.812
11839	32	4.262	7.973	11911	13	13.408	10.098	11983	11	0.600	14.570	12055	18	20.278	17.792	12127	47	13.652	20.570
11840	15	4.512	7.876	11912	48	13.690	10.325	11984	10	1.200	14.058	12056	22	20.532	17.994	12128	36	13.804	20.625
11841	14	7.884	7.358	11913	24	13.879	10.653	11985	18	8.402	14.400	12057	23	20.980	17.790	12129	11	14.402	20.721
11842	11	10.046	7.943	11914	12	14.390	10.115	11986	16	9.236	14.121	12058	48	21.106	17.808	12130	12	15.138	20.182
11843	17	10.322	7.678	11915	10	14.848	10.602	11987	23	11.672	14.008	12059	22	21.119	17.342	12131	10	15.190	20.252
11844	37	10.922	7.930	11916	14	15.136	10.768	11988	22	12.250	14.674	12060	19	21.429	17.898	12132	13	16.380	20.172
11845	19	12.940	7.498	11917	25	16.624	10.772	11989	13	12.282	14.527	12061	16	22.534	17.756	12133	23	16.908	20.178
11846	38	12.952	7.724	11918	17	17.640	10.732	11990	10	13.116	14.300	12062	42	22.993	17.234	12134	76	22.736	20.824
11847	21	18.306	7.360	11919	21	18.640	10.198	11991	11	15.233	14.910	12063	12	23.142	17.428	12135	34	23.930	20.510
11848	17	18.490	7.468	11920	10	19.514	10.270	11992	20	17.440	14.680	12064	23	23.372	17.104	12136	43	24.044	20.459
11849	14	19.782	7.958	11921	31	21.910	10.500	11993	28	17.750	14.539	12065	44	23.755	17.959	12137	28	1.722	21.189
11850	13	22.396	7.064	11922	19	1.340	11.020	11994	21	18.027	14.172	12066	21	25.081	17.132	12138	38	6.160	21.570
11851	54	2.652	8.528	11923	42	5.769	11.092	11995	18	19.595	14.634	12067	10	0.272	18.881	12139	36	7.660	21.880
11852	13	3.657	8.756	11924	12	7.860	11.724	11996	32	20.072	14.415	12068	11	1.546	18.664	12140	27	9.677	21.910
11853	29	4.322	8.647	11925	14	9.180	11.785	11997	35	21.129	14.343	12069	27	2.142	18.572	12141	33	10.158	21.616
11854	10	6.234	8.911	11926	130	10.102	11.177	11998	18	21.751	14.902	12070	15	3.384	18.405	12142	22	10.720	21.448
11855	18	7.667	8.748	11927	34	10.770	11.014	11999	30	23.420	14.406	12071	20	4.942	18.177	12143	28	13.972	21.468
11856	19	9.228	8.122	11928	12	12.272	11.279	12000	82	23.544	14.170	12072	35	5.662	18.538	12144	20	15.442	21.202
11857	18	9.532	8.393	11929	12	12.412	11.620	12001	23	24.624	14.018	12073	23	5.672	18.856	12145	21	17.094	21.194
11858	34	9.734	8.978	11930	19	12.582	11.620	12002	13	25.523	14.266	12074	13	6.539	18.267	12146	10	17.260	21.276
11859	17	10.497	8.285	11931	18	12.810	11.608	12003	11	1.528	15.261	12075	10	6.544	18.186	12147	15	17.989	21.556
11860	25	10.896	8.368	11932	18	13.346	11.098	12004	13	3.460	15.988	12076	10	8.159	18.261	12148	35	18.148	21.620
11861	30	12.502	8.592	11933	19	13.922	11.109	12005	42	5.500	15.646	12077	18	8.162	18.301	12149	38	19.452	21.584
11862	32	13.052	8.042	11934	12	14.716	11.072	12006	16	5.819	15.816	12078	22	8.648	18.247	12150	20	20.865	21.386
11863	10	14.123	8.114	11935	11	14.768	11.390	12007	10	6.776	15.338	12079	10	10.355	18.700	12151	13	22.797	21.020
11864	27	14.577	8.702	11936	43	17.600	11.378	12008	35	8.242	15.898	12080	30	10.398	18.784	12152	10	23.476	21.354
11865	10	15.610	8.742	11937	36	17.730	11.676	12009	12	9.940	15.352	12081	18	11.531	18.840	12153	10	23.636	21.582
11866	18	16.953	8.128	11938	16	18.544	11.129	12010	17	10.440	15.370	12082	16	12.612	18.890	12154	20	23.804	21.181
11867	10	17.557	8.156	11939	30	19.043	11.169	12011	33	11.296	15.034	12083	10	12.868	18.038	12155	29	24.320	21.604
11868	13	17.996	8.487	11940	11	20.480	11.784	12012	28	11.669	15.350	12084	42	13.203	18.886	12156	12	24.348	21.718
11869	10	18.440	8.408	11941	25	20.778	11.872	12013	10	14.218	15.683	12085	19	14.209	18.734	12157	12	25.076	21.436
11870	19	18.536	8.267	11942	12	21.010	11.176	12014	22	15.098	15.418	12086	39	15.090	18.702	12158	53	25.446	21.942
11871	18	20.522	8.320	11943	17	22.003	11.591	12015	26	16.046	15.836	12087	22	15.210	18.120	12159	48	2.019	22.500
11872	20	20.690	8.756	11944	14	25.000	11.928	12016	25	16.456	15.740	12088	16	16.292	18.942	12160	38	4.144	22.748
11873	22	21.650	8.005	11945	11	0.980	12.943	12017	29	16.690	15.324	12089	60	23.738	18.538	12161	10	4.152	22.606
1																			



12172	10	15.724	22.140	12259	29	10.335	0.669	12331	19	9.097	5.516	12403	16	4.317	9.334	12475	12	9.910	12.884																
12173	21	18.291	22.836	12260	29	10.413	0.456	12332	22	10.550	5.630	12404	41	6.492	9.742	12476	8	10.130	12.790																
12174	25	20.198	22.426	12261*	36	12.143	0.838	12333	17	11.290	5.084	12405	21	7.383	9.298	12477	11	11.744	12.134																
12175	11	24.647	22.259	12262	10	14.800	0.186	12334	12	11.724	5.391	12406	23	7.628	9.004	12478*	38	12.114	12.490																
12176	31	0.262	23.172	12263	22	15.278	0.569	12335	48	11.970	5.472	12407	14	9.723	9.607	12479	12	12.328	12.496																
12177	24	1.402	23.654	12264	11	16.254	0.919	12336	26	12.987	5.707	12408	24	11.526	9.672	12480	42	14.386	12.552																
12178	22	4.313	23.398	12265	11	16.933	0.032	12337	19	13.725	5.238	12409	19	12.542	9.042	12481*	62	14.416	12.502																
12179	13	6.608	23.040	12266*	45	17.977	0.827	12338	16	13.896	5.528	12410	12	13.585	9.844	12482	12	14.479	12.499																
12180	16	7.338	23.797	12267	17	20.976	0.764	12339	26	14.190	5.539	12411	16	15.577	9.920	12483	10	15.908	12.592																
12181	32	7.522	23.266	12268*	60	1.828	1.427	12340	17	14.782	5.306	12412	18	15.768	9.693	12484	16	18.134	12.732																
12182	16	7.625	23.458	12269	8	2.720	1.034	12341	36	15.556	5.637	12413	12	15.936	9.370	12485	25	18.358	12.930																
12183	11	8.822	23.435	12270	36	3.276	1.198	12342	17	18.068	5.849	12414	8	18.192	9.492	12486	9	18.440	12.638																
12184	10	11.346	23.751	12271	11	7.111	1.380	12343	14	21.288	5.290	12415	24	19.286	9.864	12487	24	20.316	12.039																
12185	23	11.884	23.649	12272	10	8.352	1.557	12344	10	22.316	5.704	12416	16	19.570	9.374	12488	14	21.225	12.750																
12186	12	12.032	23.238	12273	10	13.490	1.447	12345	22	25.385	5.869	12417	20	22.557	9.550	12489	39	22.092	12.283																
12187	10	19.434	23.895	12274	14	14.554	1.641	12346	19	1.771	6.873	12418	11	22.589	9.107	12490	14	22.095	12.712																
12188	17	20.184	23.228	12275	36	20.737	1.604	12347	18	3.854	6.301	12419	34	24.681	9.094	12491	11	22.241	12.023																
12189	25	20.208	23.816	12276	18	21.220	1.478	12348	20	3.873	6.702	12420	39	5.292	10.233	12492	12	24.817	12.858																
12190	21	22.732	23.383	12277	30	22.142	1.260	12349	40	4.366	6.181	12421	21	7.054	10.026	12493	10	25.254	12.753																
12191	13	8.410	24.969	12278	12	23.555	1.244	12350*	39	11.616	6.124	12422	15	8.894	10.795	12494	41	1.304	13.032																
12192	13	10.584	24.109	12279	11	24.635	1.036	12351	25	12.387	6.864	12423	19	9.297	10.302	12495	36	1.684	13.661																
12193*	49	11.188	24.898	12280	29	25.026	1.756	12352	10	12.594	6.818	12424	13	10.148	10.400	12496	11	2.817	13.948																
12194	10	11.586	24.430	12281	18	1.178	2.894	12353	13	13.108	6.560	12425	15	10.252	10.652	12497	10	4.490	13.858																
12195	18	13.814	24.680	12282*	37	2.376	2.252	12354	32	13.594	6.311	12426	19	10.302	10.660	12498*	46	4.808	13.421																
12196	41	14.342	24.120	12283	17	3.304	2.818	12355*	34	14.056	6.809	12427	12	10.557	10.398	12499	18	8.246	13.790																
12197	10	15.528	24.127	12284	28	5.134	2.546	12356	13	14.420	6.323	12428	36	10.834	10.161	12500	11	10.308	13.867																
12198	13	16.930	24.898	12285	14	6.156	2.856	12357	9	14.624	6.736	12429	21	11.016	10.862	12501	12	12.304	13.766																
12199	14	18.791	24.606	12286	35	6.498	2.838	12358	12	14.660	6.600	12430	18	12.691	10.802	12502	8	13.530	13.428																
12200	15	19.242	24.374	12287	9	7.328	2.472	12359	23	15.174	6.628	12431	14	13.658	10.667	12503	27	13.645	13.563																
12201	27	22.700	24.040	12288*	56	7.550	2.784	12360	10	18.213	6.230	12432	19	14.267	10.408	12504	10	14.017	13.553																
12202	18	24.247	24.872	12289*	60	7.560	2.780	12361	25	21.162	6.252	12433	18	14.278	10.392	12505	26	14.224	13.995																
12203	63	2.167	25.289	12290	15	9.092	2.144	12362	30	21.177	6.926	12434	19	14.552	10.907	12506	15	15.377	13.206																
12204	57	4.040	25.305	12291	10	10.144	2.396	12363	15	22.114	6.983	12435	19	16.767	10.930	12507	25	15.914	13.437																
12205	27	7.360	25.090	12292	11	20.923	2.356	12364	11	0.198	7.203	12436	14	17.124	10.131	12508	20	16.850	13.098																
12206	22	11.936	25.958	12293	18	22.728	2.898	12365*	48	5.522	7.252	12437*	38	21.200	10.612	12509	10	16.874	13.658																
12207	32	12.613	25.030	12294	35	23.317	2.832	12366	20	5.644	7.609	12438	15	22.551	10.632	12510	24	17.144	13.627																
12208	10	14.298	25.934	12295	10	24.166	2.247	12367	10	9.763	7.540	12439	8	22.816	10.538	12511	21	17.852	13.114																
12209	12	17.792	25.652	12296	18	24.795	2.122	12368	30	9.928	7.784	12440	30	22.880	10.271	12512	14	19.924	13.410																
12210	35	22.710	25.991	12297	19	0.177	3.198	12369	18	9.948	7.544	12441*	44	22.895	10.718	12513	14	20.470	13.008																
12211	14	24.539	25.481	12298	28	0.770	3.269	12370*	51	9.992	7.560	12442	18	23.885	10.300	12514	21	20.970	13.247																
<div>R.A. 5<sup>h</sup> 56<sup>m</sup></div> <div>Plate 1787; 1921 Jan. 4</div> <div>Provisional Constants</div> <div>A      B      C</div> <div>-01753 +01512 -1979</div> <div>D      E      F</div> <div>-01516 -01746 -1439</div> <div>Mag. = 16.3 - 1.05√d</div>																				12299	24	2.562	3.682	12371	18	10.382	7.590	12443	26	24.592	10.120	12515	23	20.979	13.882
																				12300	10	4.235	3.658	12372	13	10.838	7.428	12444	21	25.088	10.054	12516	18	22.170	13.391
																				12301	30	5.758	3.698	12373	14	10.954	7.557	12445	13	25.329	10.098	12517	26	1.448	14.508
																				12302	14	9.547	3.510	12374	35	14.007	7.500	12446	18	2.950	11.984	12518*	83	1.556	14.272
																				12303	44	9.882	3.416	12375	10	14.940	7.648	12447	26	4.449	11.556	12519	21	2.640	14.083
																				12304	16	11.659	3.288	12376	14	15.451	7.520	12448	17	5.096	11.115	12520	12	3.547	14.303
																				12305	18	12.120	3.254	12377	13	15.459	7.604	12449	19	5.934	11.859	12521	12	5.222	14.330
																				12306	20	12.595	3.349	12378	27	15.846	7.114	12450	16	7.327	11.752	12522	17	8.600	14.084
																				12307	14	13.658	3.879	12379	18	21.382	7.302	12451	23	10.126	11.290	12523	12	9.798	14.964
																				12308	14	17.368	3.718	12380	25	21.518	7.727	12452	26	10.534	11.150	12524	15	10.895	14.419
																				12309	12	18.627	3.372	12381	16	21.764	7.050	12453	41	10.982	11.707	12525	10	13.828	14.293
																				12310	10	18.882	3.142	12382*	49	23.283	7.788	12454	10	12.664	11.244	12526*	58	14.360	14.2



12547	11	16.924	15.740	12619*	59	8.308	19.043	12691	12	24.655	23.283	12762	37	2.832	1.842	12834	59	19.236	4.877
12548	20	18.188	15.718	12620	10	8.408	19.732	12692	24	1.032	24.161	12763	52	5.380	1.484	12835	38	19.322	4.895
12549	10	18.976	15.088	12621	15	8.620	19.868	12693	16	2.605	24.945	12764	31	11.278	1.746	12836	43	21.474	4.285
12550	38	19.954	15.758	12622	10	11.579	19.458	12694	34	7.235	24.424	12765	16	11.556	1.441	12837	50	21.790	4.848
12551	41	23.384	15.669	12623	9	13.224	19.862	12695	8	7.276	24.623	12766	32	12.340	1.852	12838	15	22.410	4.076
12552	12	24.450	15.570	12624	19	17.629	19.080	12696	12	8.076	24.062	12767	49	13.041	1.993	12839	42	25.852	4.644
12553	18	25.019	15.109	12625	11	21.896	19.448	12697	10	10.676	24.260	12768	32	14.593	1.807	12840	10	0.118	5.791
12554	12	25.482	15.680	12626	18	22.017	19.405	12698	20	10.903	24.233	12769	47	15.792	1.304	12841	30	3.190	5.956
12555	10	2.382	16.267	12627	26	24.406	19.664	12699	28	11.044	24.046	12770	18	19.112	1.118	12842	16	4.940	5.200
12556	15	2.630	16.597	12628	22	25.571	19.348	12700	12	11.480	24.168	12771	14	20.279	1.292	12843	18	9.118	5.776
12557	20	8.353	16.256	12629	10	25.725	19.047	12701	10	12.548	24.652	12772	10	21.315	1.594	12844	33	10.350	5.778
12558	21	8.914	16.038	12630*	72	0.956	20.946	12702	19	12.906	24.665	12773	32	21.800	1.919	12845	11	10.722	5.576
12559	19	11.844	16.111	12631	33	2.148	20.596	12703	14	13.325	24.130	12774	30	22.958	1.330	12846	20	11.000	5.098
12560	13	12.086	16.708	12632	42	2.260	20.540	12704	28	14.042	24.928	12775	14	0.534	2.986	12847	11	11.302	5.402
12561	16	15.244	16.329	12633	11	4.351	20.320	12705	18	14.700	24.300	12776	45	1.120	2.920	12848	10	13.283	5.992
12562	13	16.158	16.731	12634	18	5.140	20.356	12706	27	16.554	24.434	12777	10	1.970	2.332	12849	36	13.662	5.332
12563	39	16.205	16.418	12635	20	5.440	20.586	12707	17	16.567	24.199	12778	24	2.601	2.209	12850	28	17.396	5.128
12564	16	17.164	16.702	12636	11	5.860	20.126	12708	15	19.980	24.270	12779	10	3.172	2.176	12851	13	22.190	5.350
12565	11	18.733	16.292	12637	17	8.032	20.257	12709	12	21.440	24.319	12780	34	4.874	2.624	12852	10	22.540	5.604
12566	14	23.228	16.827	12638	19	9.213	20.168	12710	21	22.404	24.058	12781	24	11.822	2.603	12853	12	23.464	5.709
12567	14	23.908	16.798	12639	13	11.230	20.051	12711	16	23.472	24.004	12782	29	12.101	2.001	12854	10	23.742	5.964
12568	13	24.680	16.492	12640	19	12.002	20.468	12712	16	2.919	25.545	12783	48	14.332	2.972	12855	10	1.395	6.149
12569	15	25.284	16.169	12641	14	12.758	20.746	12713	10	2.942	25.539	12784	28	16.173	2.290	12856	11	5.626	6.910
12570	10	0.670	17.884	12642	14	18.590	20.945	12714	18	7.474	25.836	12785	13	16.881	2.806	12857	16	9.223	6.883
12571*	33	1.108	17.348	12643	14	18.674	20.626	12715	18	9.050	25.752	12786	29	17.417	2.510	12858	29	10.750	6.675
12572	19	1.486	17.208	12644	18	19.773	20.920	12716	11	11.079	25.175	12787	25	17.920	2.892	12859	10	10.836	6.246
12573	19	3.194	17.182	12645	36	20.004	20.679	12717	21	12.064	25.430	12788	53	19.966	2.791	12860	25	11.359	6.284
12574	23	6.350	17.085	12646	13	20.936	20.429	12718	9	12.135	25.096	12789	19	21.244	2.468	12861	26	11.572	6.752
12575	28	7.236	17.857	12647*	52	21.690	20.244	12719	44	12.498	25.348	12790	26	22.204	2.625	12862	24	11.770	6.430
12576	31	9.992	17.923	12648	39	24.324	20.708	12720	15	14.310	25.866	12791	28	25.026	2.000	12863	40	13.150	6.293
12577	38	10.274	17.056	12649	9	25.160	20.497	12721	15	15.271	25.042	12792	34	25.215	2.280	12864	15	13.519	6.706
12578*	49	12.174	17.397	12650	49	25.677	20.348	12722	46	16.930	25.906	12793	19	1.208	3.868	12865	18	13.663	6.482
12579	18	13.960	17.880	12651	14	1.037	21.140	12723	37	18.338	25.859	12794*	54	4.618	3.804	12866	12	14.007	6.374
12580	38	15.334	17.341	12652	15	1.726	21.453	12724	29	21.070	25.074	12795	14	5.127	3.362	12867	11	14.339	6.012
12581	10	16.100	17.620	12653	18	2.045	21.268	12725	31	23.618	25.644	12796	11	5.826	3.158	12868	13	14.972	6.443
12582	14	17.082	17.462	12654	25	2.573	21.676	12726	31	23.908	25.110	12797	19	6.274	3.640	12869*	47	15.325	6.058
12583	11	17.227	17.840	12655	10	2.608	21.788	12727	11	24.621	25.374	12798	10	6.648	3.384	12870*	61	16.660	6.270
12584	10	17.278	17.600	12656	14	3.326	21.482					12799	23	8.074	3.402	12871	10	18.482	6.558
12585	20	17.330	17.363	12657*	48	3.702	21.978					12800	13	8.836	3.290	12872*	51	20.460	6.698
12586	23	18.426	17.181	12658	21	8.316	21.086					12801	12	12.852	3.470	12873	19	20.903	6.840
12587	21	19.193	17.640	12659	30	10.636	21.575					12802	17	14.102	3.714	12874	10	21.401	6.542
12588	23	21.522	17.066	12660	18	12.432	21.982					12803	31	14.870	3.910	12875	18	22.166	6.459
12589	32	23.440	17.885	12661	25	13.370	21.178					12804	23	16.946	3.169	12876*	60	22.315	6.170
12590	30	23.494	17.854	12662	33	14.792	21.143					12805	40	17.209	3.879	12877*	59	1.076	7.875
12591	29	23.560	17.750	12663	12	15.856	21.883					12806	10	18.044	3.722	12878	11	2.772	7.952
12592	20	24.736	17.180	12664	17	16.028	21.940					12807	14	19.409	3.271	12879	15	5.286	7.402
12593	32	24.860	17.660	12665	12	17.238	21.083					12808	33	20.332	3.738	12880	17	5.346	7.735
12594	10	25.085	17.646	12666*	56	17.766	21.857					12809	30	21.154	3.481	12881	17	5.847	7.253
12595*	56	1.886	18.628	12667	35	19.660	21.306					12810	27	21.750	3.500	12882	11	8.860	7.238
12596*	39	1.890	18.049	12668*	50	20.066	21.841					12811	10	0.382	4.262	12883	10	9.720	7.956
12597*	51	6.757	18.352	12669	17	20.258	21.860					12812	21	4.080	4.806	12884	47	11.422	7.092
12598	14	7.512	18.848	12670	24	20.524	21.588					12813	10	4.544	4.400	12885	23	11.680	7.414
12599	18	7.757	18.888	12671*	67	21.624	21.598					12814	17	5.100	4.876	12886	20	11.706	7.336
12600	26	9.008	18.970	12672	10	23.237	21.430					12815	10	6.419	4.718	12887	47	12.450	7.460
12601	10	12.082	18.784	12673	13	2.923	22.320					12816	27	6.833	4.605	12888	14	13.160	7.200
12602	18	12.171	18.102	12674	17	5.734	22.861					12817	32	8.590	4.800	12889	33	14.310	7.828
12603	10	12.373	18.657	12675	20	6.092	22.536					12818	10	8.886	4.690	12890	23	14.343	7.150
12604	11	12.646	18.056	12676	17	14.640	22.469					12819	34	9.684	4.807	12891	25	15.770	7.546
12605	13	13.066	18.014	12677	17	22.061	22.462					12820	17	9.726	4.646	12892	12	16.382	7.171
12606	18	15.930	18.764	12678	22	22.200	22.542					12821	37	9.952	4.351	12893	25	19.632	7.511
12607	18	18.227	18.360	12679	43	22.402	22.157					12822	16	10.362	4.183	12894	11	20.146	7.678
12608	16	18.787	18.399	12680	19	23.480	22.852					12823	10	11.414	4.350	12895	13	20.462	7.108
12609	10	20.324	18.540	12681	9	24.664	22.658					12824	14	11.914	4.476	12896	18	22.460	7.160
12610	10	20.581	18.076	12682*	29	25.000	22.971					12825	14	11.992	4.758	12897	12	24.400	7.917
12611	23	23.108	18.181	12683	18	1.044	23.504					12826	44	13.030	4.510	12898	18	25.938	7.240
12612	20	25.232	18.566	12684	21	9.066	23.734					12827							



12906*	55	5.954	8 327	12978	16	4.590	10 539	13050	21	16 617	12.994	13122	35	17.960	14.160	13104	20	4.700	17.993
12907	13	6.058	8 108	12979	13	6.120	10 210	13051	27	18.151	12 834	13123	13	18.068	14.423	13105	14	4.867	17.321
12908	27	6.791	8.670	12980	10	7.304	10.774	13052	10	18.207	12 710	13124	23	18.340	14.852	13106	11	5.384	17.649
12909	27	7.435	8.871	12981	13	8.631	10.974	13053	14	18.304	12 910	13125	19	19.470	14.015	13107	39	6.084	17.182
12910	10	8 275	8.666	12982	10	8.805	10 839	13054	29	18.683	12.564	13126	17	20.341	14 998	13108	15	6.410	17.517
12911	12	8 380	8.430	12983	10	10.378	10 400	13055	14	18.735	12.570	13127	13	20.728	14.640	13109	25	8.530	17.354
12912	45	8.780	8.305	12984*	43	10 940	10 691	13056	39	19 245	12.597	13128*	48	21 916	14.891	13200	25	8.775	17 820
12913	19	9.070	8 862	12985	44	13 930	10 620	13057	23	19.318	12.659	13129	44	24 455	14.620	13201	30	11.544	17.264
12914	12	9.247	8.236	12986	11	14.572	10 671	13058	33	19.456	12.715	13130	22	25 744	14.980	13202	11	12 284	17.790
12915	10	10.081	8.402	12987	17	16.300	10.709	13059	33	20 060	12.844	13131	48	1 179	15.758	13203	11	13.034	17 434
12916	27	10.467	8 180	12988	15	16.450	10.210	13060	31	20.940	12 279	13132	15	2 250	15.659	13204	10	15.164	17.536
12917	30	10.616	8 237	12989	36	17.828	10.293	13061	30	21.240	12.669	13133	28	2 820	15.107	13205	17	15.645	17.810
12918	11	10.946	8.790	12990	11	18.078	10.852	13062	12	21.886	12.414	13134	21	3 282	15.768	13206	10	16.690	17.900
12919	14	12.597	8.162	12991	17	18 100	10.742	13063	34	22.810	12.375	13135	14	5.230	15.324	13207	10	16 740	17.510
12920	23	13.120	8.166	12992*	42	19.546	10.592	13064	10	23 382	12.791	13136	25	5 355	15.476	13208	33	16 768	17.389
12921	12	13.508	8.320	12993	11	20.836	10 908	13065	28	24.551	12.160	13137	25	6.184	15.597	13209	33	17 000	17.935
12922	21	13.862	8.293	12994*	66	20 914	10 394	13066	28	25.070	12.070	13138	14	6.379	15.502	13210	36	18.244	17.514
12923	43	14.594	8.389	12995	18	23 066	10 362	13067	11	25.360	12.821	13139	13	6.716	15.989	13211	46	18 705	17.206
12924	39	14.628	8 542	12996	29	23.220	10.213	13068	16	4.702	13 990	13140	15	9.197	15.832	13212	28	18.771	17.050
12925*	48	15.178	8.377	12997	20	1 896	11.198	13069	11	5.340	13.833	13141	10	10.678	15.090	13213	29	19.206	17 971
12926	22	15.290	8.158	12998*	49	2 640	11 142	13070	16	9.847	13.916	13142	13	10 680	15.047	13214	28	20.944	17.182
12927*	49	15.659	8.140	12999*	47	3 510	11 914	13071	23	10.958	13.690	13143	28	11 100	15.270	13215	33	21.078	17 942
12928	10	15.968	8 917	13000	10	4.066	11.871	13072	27	11.240	13.771	13144	13	13.004	15.886	13216	19	21.179	17 262
12929	34	17.060	8 725	13001	10	4.410	11.384	13073	14	12.686	13.792	13145	29	13.076	15.840	13217*	64	21.803	17.636
12930	11	17.157	8 288	13002	15	5 776	11 672	13074	17	13.151	13.880	13146	11	13.304	15.498	13218	13	22.771	17.106
12931	21	18.484	8.622	13003	35	7.056	11 072	13075	13	13.530	13.804	13147	11	13.463	15.655	13219*	58	24.376	17 936
12932	31	18.900	8 985	13004	10	9 367	11.122	13076	13	15.161	13.084	13148	10	15.868	15.518	13220	15	25.150	17.430
12933	25	19.071	8.614	13005	29	10.229	11.674	13077	10	15.374	13.522	13149	13	17.940	15.940	13221	20	25.280	17.280
12934	44	19.450	8.317	13006	10	10.380	11 964	13078	23	15.512	13.038	13150	15	18.696	15.517	13222	27	0.910	18.270
12935	10	20.001	8.824	13007	28	10.498	11.028	13079	14	15.728	13.840	13151	28	19.428	15.564	13223	12	1.398	18.902
12936	15	23.410	8.690	13008	26	10.600	11.693	13080	11	15.870	13.989	13152	20	22.116	15 370	13224	27	3.032	18.657
12937	16	24.724	8.598	13009	18	10 602	11.146	13081	13	17.244	13.420	13153	20	22.376	15.992	13225	28	4.675	18.546
12938	24	0.358	9.645	13010	9	10 799	11 910	13082	13	17.891	13.700	13154	15	23.610	15 531	13226	17	4.900	18.303
12939	11	0.390	9.195	13011	12	10 955	11.910	13083	11	20 814	13.262	13155	17	23 982	15.370	13227	12	5.008	18.265
12940	10	0.612	9.760	13012	17	11.410	11.247	13084	12	21.098	13.804	13156	29	25 578	15 131	13228	12	6.087	18.570
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12942	42	2.482	9 182	13014	12	13.457	11 308	13086	25	21.950	13.765	13158	20	1.704	16.887	13230	34	7.324	18.185
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12944	26	6.660	9.600	13016	28	14.552	11.050	13088	17	22.932	13.560	13160	18	2.482	16.580	13232	10	7.648	18.866
12945	11	6.801	9.783	13017	13	14.998	11.270	13089	16	23.062	13.918	13161	18	3 085	16.256	13233	28	7 850	18.696
12946	11	8.016	9.828	13018*	64	15.480	11.210	13090	29	23.714	13.437	13162	11	3 304	16.442	13234	13	8 474	18.374
12947	10	8.266	9.620	13019	20	16.120	11.235	13091	40	25.225	13.700	13163	19	5.826	16.764	13235	10	9 368	18.573
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12949	14	11.646	9.014	13021	31	17.200	11.525	13093	26	1.356	14.234	13165	14	7.669	16.218	13237*	58	9.873	18.450
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12956*	53	15.882	9.713	13028	48	23.042	11.014	13100	11	8.483	14.768	13172	10	10.826	16.558	13244	22	15.190	18 975
12957	29	17.046	9.320	13029	12	0.046	12.112	13101	20	8.734	14.842	13173	11	10.976	16.760	13245	25	16.470	18.030
12958	10	18.190	9.853	13030	10	2.263	12.828	13102	30	8.826	14.950	13174	45	12.764	16.026	13246	37	17.832	18.376
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12961	25	18.668	9.375	13033	15	3.054	12.840	13105	14	9.524	14.885	13177	39	15.286	16.801	13249	25	23.742	18.844
12962*	55	19.641	9.788	13034	27	4.540	12.152	13106*	58	10.202	14.552	13178	12	15.478	16.445	13250	16	24.042	18.746
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12964	27	21.733	9.951	13036	28	4.666	12.708	13108	38	10.816	14.346	13180	29	16.320	16.050	13252	33	2.205	19.754
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13642	10	20.310	7.242	13714	12	4.882	10.525	13786	26	11.495	12.800	13858	13	4.004	14.145	13930	13	9.345	16.598
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13645	12	21.481	7.685	13717	14	7.590	10.562	13789	13	14.717	12.985	13861	39	5.292	14.174	13933	11	10.420	16.982
13646	20	25.978	7.775	13718	12	8.065	10.222	13790	12	15.615	12.205	13862	11	5.319	14.831	13934	10	10.396	16.676
13647	14	1.570	8.918	13719	12	8.755	10.570	13791	14	17.992	12.698	13863	12	6.134	14.806	13935	14	10.580	16.665
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13651*	42	4.732	8.084	13723	12	11.242	10.582	13795	17	19.712	12.088	13867	19	12.383	14.630	13939	13	14.919	16.980
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13653	11	6.309	8.746	13725	10	13.719	10.337	13797	12	20.515	12.726	13869	12	13.567	14.897	13941	22	15.538	16.575
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13658	20	11.283	8.190	13730	40	15.597	10.401	13802	14	22.715	12.382	13874	24	17.400	14.668	13946	30	18.308	16.879
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13662	19	13.306	8.872	13734	11	19.585	10.095	13806	14	0.372	13.871	13878	12	19.731	14.008	13950	22	21.050	16.856
13663	14	13.437	8.375	13735	11	20.874	10.965	13807	14	1.162	13.797	13879	12	20.445	14.049	13951	13	21.945	16.192
13664	15	14.124	8.905	13736	28	20.961	10.485	13808	12	1.600	13.020	13880	28	21.174	14.542	13952	13	23.275	16.202
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13666	12	14.975	8.744	13738	13	22.545	10.666	13810	37	3.455	13.900	13882	40	0.161	15.144	13954	13	24.270	16.510
13667	10	15.874	8.868	13739*	38	22.715	10.485	13811	15	3.576	13.021	13883	19	0.374	15.619	13955	24	24.282	16.585
13668	14	18.612	8.916	13740	10	22.718	10.788	13812	23	3.613	13.688	13884	14	1.870	15.755	13956	10	24.535	16.518
13669	20	20.890	8.255	13741	18	24.640	10.939	13813	10	4.061	13.319	13885	17	2.240	15.599	13957	12	24.696	16.715
13670	20	21.802	8.104	13742	13	25.315	10.210	13814	12	4.402	13.255	13886	24	3.831	15.326	13958	60	0.088	17.890
13671	13	21.835	8.465	13743	10	1.047	11.054	13815	12	4.568	13.125	13887	21	4.016	15.172	13959	23	0.665	17.180
13672	19	21.845	8.598	13744	40	1.228	11.250	13816	11	5.655	13.310	13888*	68	5.165	15.365	13960	12	1.058	17.345
13673	14	22.170	8.325	13745	14	4.125	11.856	13817	17	5.986	13.365	13889	10	6.568	15.076	13961	10	2.166	17.958
13674	29	23.318	8.326	13746	13	4.657	11.748	13818	16	6.042	13.168	13890	26	6.664	15.194	13962	20	3.440	17.631
13675	31	23.676	8.410	13747*	35	5.300	11.746	13819	12	6.055	13.505	13891	14	6.849	15.265	13963	20	3.570	17.481
13676	22	24.385	8.630	13748	12	7.270	11.305	13820	12	7.183	13.576	13892	31	7.318	15.712	13964	10	3.855	17.576
13677*	47	24.695	8.143	13749	34	7.290	11.745	13821	13	7.244	13.971	13893	10	9.162	15.704	13965	14	4.866	17.645
13678	11	0.564	9.345	13750	10	7.678	11.922	13822	10	7.790	13.150	13894*	43	10.355	15.386	13966	14	5.145	17.150
13679	10	1.368	9.952	13751	22	8.246	11.945	13823	19	8.032	13.650	13895	12	11.094	15.342	13967	14	5.208	17.025
13680	18	2.827	9.813	13752	18	8.885	11.679	13824	21	8.425	13.270	13896	13	11.730	15.788	13968	12	7.400	17.267
13681	10	3.861	9.958	13753	28	8.932	11.134	13825	12	9.090	13.385	13897	10	12.147	15.117	13969	34	7.996	17.900
13682*	37	5.915	9.409	13754	35	11.303	11.582	13826	24	9.218	13.338	13898	30	12.424	15.369	13970	12	8.854	17.280
13683	15	6.254	9.205	13755	11	11.959	11.432	13827	34	9.400	13.432	13899	13	12.514	15.495	13971	28	9.042	17.556
13684	16	7.074	9.808	13756	13	12.440	11.799	13828	12	9.726	13.678	13900	18	13.080	15.235	13972	20	9.615	17.650
13685	12	7.737	9.926	13757	24	14.380	11.208	13829*	41	9.925	13.753	13901	10	13.292	15.860	13973	12	10.534	17.899
13686	18	9.221	9.144	13758	10	14.814	11.536	13830	15	11.032	13.390	13902	12	14.150	15.276	13974	33	11.042	17.489
13687	13	9.490	9.842	13759	26	14.885	11.127	13831*	40	12.109	13.970	13903	11	14.572	15.957	13975	32	11.142	17.505
13688	10	9.916	9.464	13760	11	16.384	11.046	13832	11	12.869	13.491	13904	14	15.460	15.749	13976	27	11.516	17.073
13689	20	10.876	9.810	13761	18	16.934	11.308	13833	20	13.066	13.555	13905	12	15.640	15.812	13977	12	12.389	17.665
13690	13	11.185	9.866	13762	11	18.030	11.366	13834	20	13.230	13.335	13906	24	17.060	15.125	13978	16	13.044	17.905
13691	11	11.478	9.804	13763	12	19.255	11.886	13835	13	13.686	13.515	13907	28	17.405	15.595	13979	10	13.745	17.927
13692	40	11.500	9.024	13764	15	19.673	11.396	13836	22	13.690	13.153	13908	16	17.860	15.553	13980	12	14.838	17.114
13693	17	12.260	9.744	13765	10	19.825	11.226	13837	13	13.696	13.772	13909	37	18.575	15.996	13981	10	15.305	17.325
13694	12	12.505	9.355	13766*	120	20.274	11.104	13838	20	14.442	13.245	13910	10	18.966	15.356	13982	20	15.684	17.765
13695	20	12.515	9.635	13767	13	21.331	11.146	13839	12	14.664	13.596	13911	10	19.140	15.684	13983	24	17.850	17.463
13696	10	13.054	9.189	13768	10	21.825	11.728	13840	19	14.858	13.592	13912	19	19.302	15.312	13984	14	22.736	17.263
13697	22	13.585	9.480	13769	12	23.693	11.321	13841	12	15.620	13.714	13913	21	22.225	15.096	13985	30	23.564	17.410
13698	20	14.619	9.054	13770	12	0.095	12.664	13842	29	16.785	13.678	13914	17	22.714	15.305	13986	33	23.823	17.143
13699	23	15.025	9.771	13771	16	1.020	12.614	13843	28	16.985	13.552	13915	12	23.285	15.302	13987	10	24.921	17.935
13700	10	16.456	9.984	13772	24	2.760	12.370	13844	24	17.010	13.795	13916	37	23.495	15.786	13988	16	2.351	18.966
13701	23	17.398	9.305	13773	24	3.278	12.273	13845	10	17.024	13.564	13917	14	24.334	15.502	13989*	51	2.666	18.146
137																			



14000	17	12.174	18.265	14072	12	16.766	20.066	14144	10	1.170	23.194	14216	10	19.590	25.698	14290	34	8.460	1.221
14001	20	12.344	18.824	14073	47	16.780	20.962	14145	13	2.890	23.691	14217	12	21.274	25.956	14291	15	11.319	1.301
14002	17	12.432	18.434	14074	33	18.582	20.205	14146	35	5.465	23.555	14218	10	21.665	25.991	14292	13	11.540	1.484
14003	15	13.376	18.942	14075	17	18.585	20.630	14147	31	5.534	23.584	14219	10	21.706	25.906	14293	48	11.736	1.008
14004	11	14.098	18.787	14076	26	20.165	20.805	14148	20	6.314	23.306	14220	27	21.925	25.984	14294	15	11.814	1.320
14005	10	15.259	18.386	14077	22	20.555	20.341	14149	17	8.898	23.524	14221	19	22.386	25.952	14295	15	11.880	1.130
14006	14	15.359	18.346	14078	43	20.896	20.746	14150	20	12.667	23.354	14222	20	22.993	25.188	14296	13	14.747	1.352
14007	12	16.420	18.518	14079	18	20.990	20.142	14151	24	12.815	23.893	14223	24	23.553	25.804	14297	14	14.962	1.873
14008	16	17.472	18.595	14080	13	23.450	20.730	14152	26	12.900	23.298	14224	14	25.444	25.335	14298	18	15.778	1.840
14009	10	19.194	18.428	14081	11	24.909	20.746	14153	10	13.221	23.453					14299	14	18.380	1.554
14010	30	21.751	18.251	14082	11	25.148	20.434	14154	20	14.024	23.800					14300	27	19.610	1.247
14011	14	23.010	18.502	14083	14	25.384	20.676	14155	32	14.066	23.383					14301	18	19.737	1.976
14012	21	23.755	18.902	14084	12	25.564	20.346	14156	24	14.534	23.545					14302	65	20.110	1.990
14013	25	23.888	18.068	14085	16	0.276	21.758	14157	10	15.576	23.302					14303	28	20.150	1.463
14014	13	24.771	18.722	14086	11	0.680	21.450	14158	24	16.255	23.787					14304	12	20.474	1.706
14015	12	24.972	18.001	14087	10	1.320	21.663	14159	28	16.944	23.599					14305	10	20.810	1.278
14016	24	25.726	18.084	14088	40	3.176	21.110	14160	22	18.995	23.740					14306	10	22.819	1.292
14017	15	0.068	19.806	14089	14	3.820	21.448	14161	18	19.139	23.522					14307	11	22.908	1.634
14018	28	1.750	19.645	14090	15	4.574	21.955	14162	51	19.775	23.445					14308	17	23.442	1.051
14019	21	2.054	19.067	14091	29	4.880	21.306	14163	19	20.120	23.288					14309	10	23.797	1.323
14020	12	3.404	19.234	14092	13	5.445	21.240	14164	16	22.757	23.105					14310	53	25.648	1.112
14021	12	3.698	19.025	14093	11	6.101	21.152	14165	52	1.524	24.363					14311	10	0.119	2.893
14022	12	4.052	19.596	14094	37	6.178	21.606	14166	20	3.105	24.437					14312	28	2.638	2.965
14023	22	5.727	19.725	14095	14	6.502	21.145	14167	49	3.565	24.365					14313	20	2.725	2.350
14024	12	6.652	19.985	14096	25	7.088	21.121	14168	19	4.065	24.637					14314	12	3.386	2.544
14025	11	6.838	19.476	14097	33	8.446	21.590	14169	13	4.070	24.624					14315	24	3.772	2.027
14026	14	9.148	19.636	14098	19	9.880	21.155	14170	32	5.046	24.370					14316	47	4.729	2.542
14027	45	10.696	19.571	14099	18	10.006	21.416	14171	33	6.592	24.112					14317	15	5.252	2.722
14028	24	10.920	19.111	14100	11	10.531	21.976	14172	14	8.120	24.882					14318	11	5.740	2.220
14029	14	10.964	19.802	14101	21	13.162	21.814	14173	16	9.417	24.304					14319	12	6.766	2.110
14030	12	12.074	19.906	14102	10	16.428	21.414	14174	24	9.420	24.734					14320	25	6.850	2.775
14031	17	12.734	19.450	14103	28	16.652	21.502	14175	10	9.619	24.137					14321	13	7.297	2.861
14032	21	13.548	19.644	14104	15	17.570	21.820	14176	11	9.763	24.096					14322	25	7.551	2.960
14033	38	15.100	19.894	14105	17	18.362	21.954	14177	12	11.071	24.095					14323	33	9.731	2.944
14034	20	15.323	19.862	14106	10	19.340	21.661	14178	11	14.027	24.899					14324	75	12.378	2.106
14035	12	16.100	19.466	14107	15	19.548	21.796	14179	16	14.244	24.576					14325	13	12.637	2.690
14036	24	16.182	19.207	14108	11	20.214	21.342	14180	33	15.772	24.594					14326	28	13.616	2.690
14037	16	16.189	19.795	14109	25	20.568	21.417	14181	14	15.880	24.872					14327	12	16.690	2.831
14038	13	16.504	19.765	14110	31	21.768	21.924	14182	13	16.270	24.304					14328	14	17.842	2.790
14039	20	17.016	19.508	14111	12	22.165	21.702	14183	11	17.723	24.332					14329	13	19.398	2.554
14040	25	17.580	19.795	14112	19	23.489	21.641	14184	69	20.372	24.192					14330	10	21.364	2.516
14041	16	18.910	19.644	14113	12	1.791	22.265	14185	22	20.380	24.245					14331	41	21.674	2.028
14042	12	20.082	19.208	14114	23	3.895	22.080	14186	15	20.816	24.421					14332	57	21.825	2.503
14043	16	20.725	19.150	14115	14	4.092	22.124	14187	80	22.222	24.982					14333	11	21.873	2.295
14044	16	21.771	19.485	14116	20	4.657	22.453	14188	43	23.915	24.803					14334	43	21.889	2.668
14045	12	22.374	19.056	14117	12	7.170	22.645	14189	10	24.095	24.712					14335	32	22.146	2.480
14046	44	22.739	19.646	14118	19	8.455	22.125	14190	12	25.954	24.832					14336	48	22.938	2.212
14047	10	24.654	19.244	14119	10	9.490	22.566	14191	28	0.754	25.308					14337	23	23.622	2.017
14048	16	24.775	19.154	14120	21	11.345	22.260	14192	12	0.790	25.922					14338	15	25.307	2.726
14049	14	25.520	19.815	14121	11	11.707	22.106	14193	38	1.685	25.933					14339	47	0.731	3.476
14050	10	1.308	20.099	14122	48	12.238	22.286	14194	18	2.341	25.072					14340	14	1.769	3.594
14051	10	1.856	20.103	14123	12	13.356	22.510	14195	19	3.169	25.092					14341	12	2.000	3.307
14052	19	2.836	20.446	14124	14	13.478	22.668	14196	13	4.094	25.275					14342	21	2.718	3.588
14053	10	3.258	20.964	14125	13	13.939	22.935	14197	35	4.336	25.625					14343	10	3.826	3.648
14054	12	4.296	20.109	14126	20	14.160	22.302	14198	32	5.100	25.644					14344	14	4.031	3.291
14055	12	5.266	20.804	14127	10	14.916	22.262	14199	20	5.408	25.372					14345	48	4.884	3.913
14056	14	6.487	20.026	14128	12	15.246	22.200	14200	22	5.845	25.510					14346	27	5.841	3.542
14057	11	8.174	20.610	14129	33	16.170	22.896	14201	24	6.496	25.304					14347	10	5.862	3.472
14058	20	9.302	20.440	14130	10	16.359	22.945	14202	11	11.235	25.518					14348	12	7.260	3.248
14059	14	9.682	20.638	14131	12	17.504	22.202	14203	14	11.431	25.428					14349	10	7.590	3.890
14060	12	10.705	20.404	14132	22	18.325	22.615	14204	15	14.690	25.264					14350	11	10.307	3.962
14061	14	11.130	20.236	14133	13	18.678	22.155	14205	12	15.224	25.696					14351	10	11.130	3.164
14062	14	12.008	20.363	14134	35	19.471	22.350	14206	12	15.960	25.168					14352	34	11.396	3.869
14063	11	13.389	20.692	14135	12	20.802	22.855	14207	14	16.306	25.266					14353	22	12.545	3.030
14064	12	14.123	20.702	14136	11	22.085	22.884	14208	12	16.572	25.684					14354	31	12.944	3.888
14065	12	14.255	20.145	14137	20	22.398	22.486	14209	11	16.610	25.986					14355	26	13.366	3.317
14066	22	14.938	20.778	14138	14	23.110	22.796	14210	12	16.734	25.564					14356	13	13.383	3.278
14067	32	15.650	20.475	14139	14	25.780	22.590	14211	22	16.764	25.010					14357	16	14.536	3.751
14068	53	15.782	20.798	14140	42	25.784	22.827	1											



14362	25	16 500	3 400	14434	19	16 670	5 252	14500	15	18 690	7 194	14578	25	20 535	9 807	14650	18	1 025	12 305
14363	16	17 518	3 828	14435	44	16 831	5 660	14507	13	18 757	7 735	14579	10	20 680	9 411	14651	12	1 077	12 293
14364	13	17 575	3 328	14436	28	17 810	5 918	14508	11	18 861	7 652	14580	17	21 278	9 160	14652	14	1 808	12 101
14365	11	17 664	3 467	14437	11	18 320	5 408	14509	11	20 031	7 523	14581	14	21 330	9 400	14653	14	2 210	12 392
14366	26	18 486	3 032	14438	12	19 460	5 434	14510	36	20 080	7 728	14582	22	21 166	9 498	14654	36	2 030	12 282
14367	42	20 600	3 650	14439	18	20 486	5 410	14511	10	21 060	7 759	14583	10	21 648	9 085	14655	12	3 040	12 731
14368	10	22 784	3 800	14440	32	20 830	5 023	14512	11	22 200	7 724	14584	14	21 882	9 376	14656	15	4 800	12 641
14369	15	22 996	3 493	14441	12	21 508	5 734	14513	13	22 577	7 414	14585	17	22 410	9 680	14657	18	5 854	12 604
14370	13	24 395	3 464	14442	33	21 980	5 046	14514	12	22 578	7 723	14586	13	21 062	9 204	14658	18	6 134	12 136
14371	36	24 732	3 782	14443	18	23 082	5 007	14515	10	23 691	7 878	14587	39	24 310	9 946	14659	26	6 173	12 812
14372	10	25 342	3 176	14444*	75	23 496	5 170	14516	15	23 730	7 072	14588	17	25 108	9 052	14660	20	6 714	12 789
14373	13	2 362	4 598	14445	12	23 636	5 231	14517	46	23 914	7 755	14589	32	0 467	10 510	14661	13	7 136	12 152
14374	14	4 021	4 795	14446	50	23 835	5 066	14518	12	24 087	7 678	14590	14	1 408	10 560	14662	17	8 081	12 126
14375	30	4 046	4 249	14447	31	24 807	5 894	14519	14	24 398	7 365	14591	14	2 057	10 678	14663	11	9 298	12 686
14376	12	4 520	4 150	14448	11	25 779	5 334	14520	29	25 102	7 901	14592	16	2 218	10 191	14664	11	9 315	12 755
14377	16	6 497	4 918	14449	22	1 724	6 174	14521	11	25 726	7 751	14593	11	2 228	10 798	14665	45	10 300	12 917
14378	28	8 832	4 274	14450	11	1 788	6 222	14522	25	0 377	8 282	14594	23	4 152	10 030	14666	29	11 573	12 050
14379	28	10 370	4 636	14451	15	1 903	6 752	14523	26	1 289	8 120	14595	15	4 822	10 196	14667	11	11 756	12 384
14380	27	10 374	4 431	14452	15	1 914	6 196	14524	15	1 326	8 484	14596	22	6 190	10 366	14668	37	11 802	12 985
14381	20	11 440	4 869	14453*	76	2 434	6 428	14525	23	1 334	8 616	14597	12	7 130	10 692	14669	16	12 569	12 742
14382	17	11 496	4 351	14454	17	2 920	6 500	14526	16	1 660	8 340	14598	11	7 513	10 607	14670	17	13 246	12 368
14383	15	12 587	4 100	14455	24	5 536	6 512	14527	35	2 806	8 331	14599	36	7 834	10 971	14671	13	13 767	12 740
14384	22	14 186	4 540	14456	15	5 856	6 014	14528	38	3 166	8 410	14600	27	8 170	10 424	14672	14	14 426	12 525
14385	28	15 222	4 700	14457	20	6 481	6 098	14529	29	3 878	8 626	14601*	51	8 249	10 035	14673	18	14 864	12 050
14386	10	15 338	4 824	14458	10	6 527	6 625	14530*	51	4 176	8 136	14602	14	10 855	10 966	14674	10	15 137	12 480
14387	51	15 749	4 742	14459	20	6 531	6 264	14531	34	5 583	8 144	14603	15	11 267	10 716	14675	12	16 305	12 040
14388	26	16 170	4 762	14460	11	8 212	6 446	14532	12	6 028	8 482	14604	12	11 308	10 590	14676	20	16 759	12 812
14389	12	16 240	4 100	14461	15	9 549	6 736	14533	37	6 100	8 352	14605	11	11 560	10 518	14677	12	16 985	12 530
14390	19	16 343	4 497	14462	22	11 462	6 391	14534	13	7 156	8 542	14606	26	11 980	10 337	14678	16	18 179	12 944
14391	14	18 962	4 884	14463	29	11 598	6 528	14535	25	7 616	8 030	14607	31	13 050	10 119	14679	11	18 738	12 904
14392	31	19 440	4 664	14464	23	12 194	6 575	14536	10	8 579	8 646	14608	13	14 003	10 766	14680	11	18 806	12 188
14393	16	20 011	4 536	14465	29	13 509	6 048	14537	28	9 298	8 744	14609	22	14 066	10 815	14681	15	19 140	12 600
14394	40	20 241	4 478	14466	13	13 649	6 159	14538	10	9 695	8 254	14610	11	14 980	10 878	14682	14	19 730	12 379
14395	14	20 268	4 480	14467	14	14 084	6 100	14539	15	10 065	8 652	14611	32	15 197	10 697	14683	17	19 752	12 346
14396	48	20 574	4 454	14468	27	14 352	6 620	14540	14	10 610	8 426	14612	13	15 909	10 743	14684	16	20 610	12 520
14397	32	20 950	4 150	14469	22	14 600	6 336	14541	40	11 280	8 866	14613	30	15 930	10 600	14685	16	21 203	12 060
14398	26	21 484	4 863	14470	17	14 896	6 520	14542	15	13 104	8 830	14614	12	16 137	10 042	14686	15	21 247	12 447
14399	28	21 678	4 196	14471	10	15 732	6 272	14543	30	14 520	8 450	14615	25	17 750	10 629	14687	13	21 612	12 740
14400*	80	22 376	4 866	14472	14	16 624	6 946	14544	20	14 771	8 810	14616	15	19 398	10 241	14688	13	22 815	12 430
14401*	60	23 704	4 300	14473	14	17 094	6 215	14545	16	15 580	8 324	14617	10	20 130	10 154	14689	15	23 072	12 488
14402	14	23 946	4 778	14474	14	17 482	6 295	14546	28	16 965	8 520	14618	10	20 196	10 947	14690	14	23 518	12 876
14403	14	24 569	4 322	14475	25	17 514	6 312	14547	16	17 130	8 182	14619	45	21 804	10 663	14691	40	24 114	12 326
14404	13	1 240	5 540	14476	10	18 652	6 518	14548	11	18 886	8 150	14620*	55	23 102	10 894	14692	13	24 204	12 436
14405	20	1 368	5 154	14477	60	19 612	6 888	14549	10	19 070	8 977	14621	16	23 353	10 006	14693	31	24 256	12 250
14406	12	1 892	5 583	14478	19	20 702	6 360	14550	13	19 250	8 746	14622	45	23 780	10 338	14694	13	24 340	12 444
14407	30	2 106	5 622	14479	15	22 820	6 106	14551	10	22 285	8 554	14623	37	24 226	10 161	14695	15	25 074	12 824
14408	16	3 090	5 510	14480	11	23 630	6 632	14552	49	22 456	8 164	14624	36	24 400	10 377	14696	14	25 405	12 150
14409	10	4 067	5 924	14481	15	24 988	6 826	14553	27	22 784	8 260	14625	11	24 558	10 456	14697	38	25 546	12 214
14410	11	4 408	5 700	14482	14	25 034	6 856	14554	18	0 540	9 258	14626*	45	25 440	10 456	14698	12	0 460	13 329
14411	28	4 642	5 344	14483	17	0 362	7 075	14555	10	5 199	9 304	14627	16	0 846	11 168	14699	10	2 556	13 912
14412	10	5 374	5 830	14484	13	0 965	7 704	14556	13	5 440	9 628	14628	13	3 208	11 322	14700	15	3 634	13 304
14413	28	5 563	5 680	14485	27	5 460	7 754	14557	13	5 543	9 606	14629	10	3 630	11 892	14701	13	3 758	13 830
14414*	63	6 120	5 403	14486	19	5 656	7 124	14558*	57	6 910	9 863	14630	11	6 910	11 590	14702	10	5 466	13 074
14415	28	6 511	5 675	14487	12	5 808	7 474	14559	15	7 400	9 985	14631	26	11 411	11 544	14703	15	5 923	13 273
14416	10	7 466	5 908	14488	13	7 838	7 274	14560	13	8 374	9 206	14632	11	11 429	11 625	14704	31	6 736	13 259
14417	38	7 480	5 546	14489	34	8 640	7 456	14561	16	8 745	9 040	14633	27	11 954	11 494	14705	26	6 934	13 215
14418	13	7 758	5 636	14490	21	9 372	7 190	14562	46	11 110	9 509	14634*	63	12 268	11 125	14706	13	7 202	13 915
14419	10	8 364	5 818	14491	17	9 978	7 815	14563	12	11 780	9 004	14635	13	12 915	11 285	14707	13	7 310	13 212
14420	10	8 404	5 990	14492	18	10 081	7 507	14564	29	12 490	9 601	14636	15	13 256	11 820	14708	11	7 449	13 158
14421	12	9 349	5 638	14493	11	10 538	7 225	14565	11	12 492	9 860	14637	19	14 554	11 155	14709	15	7 460	13 701
14422	14	9 602	5 785	14494	26	11 120	7 185	14566	12	12 826	9 552	14638	11	14 619	11 176	14710	20	8 186	13 472
14423	19	10 108	5 484	14495	22	11 322	7 376	14567	17	13 518	9 576	14639	12	15 732	11 413	14711	39	9 535	13 266
14424	10	10 334	5 658	14496	28	14 170	7 643	14568	15	13 650	9 816	14640*	77	18 452	1				



14722	18	15.643	13 130	14794	15	12.700	15.667	14866	10	10.834	17 654	14938	31	8.733	19.242	15010	22	8.933	21.810
14723	53	15.723	13 586	14795	20	12.736	15.827	14867	20	11.586	17 643	14939	13	8.980	19.786	15011	16	9.970	21.465
14724	14	15.770	13 231	14796	15	12.913	15.736	14868	10	12.142	17 050	14940	10	9.916	19.494	15012	10	10.210	21.380
14725	17	16.430	13.131	14797	17	13.602	15.676	14869	17	12.424	17 839	14941	48	9.961	19.984	15013	15	12.174	21.084
14726	15	18.030	13 738	14798	40	15.224	15.476	14870	11	12.783	17 185	14942	16	10.166	19.782	15014	29	13.115	21.472
14727	13	18.544	13.422	14799	26	15.277	15.391	14871	19	13.256	17.128	14943	37	10.256	19.570	15015	28	13.253	21.494
14728	14	19.060	13 553	14800	17	16.392	15.466	14872	18	14.175	17.044	14944	12	11.163	19.191	15016	21	13.296	21.710
14729	26	19.240	13.157	14801	43	17.179	15.700	14873	18	14.625	17.966	14945	29	11.680	19.278	15017	11	13.976	21.663
14730	14	19.356	13.450	14802	16	17.626	15.468	14874	30	14.630	17.836	14946	10	11.864	19.166	15018	16	14.109	21.539
14731	12	19.454	13.127	14803	10	17.906	15.285	14875	18	14.634	17.065	14947	22	12.404	19.770	15019	12	14.940	21.852
14732	10	19.698	13.854	14804	50	18.044	15.732	14876	10	15.120	17.140	14948	29	12.512	19.183	15020	16	16.442	21.645
14733	45	20.724	13.120	14805	17	18.298	15.848	14877	10	15.151	17.368	14949	38	13.227	19.437	15021	11	17.191	21.286
14734	13	21.280	13.099	14806	33	19.211	15.304	14878	44	15.166	17.404	14950	17	13.334	19.525	15022	19	17.234	21.309
14735	17	21.776	13.045	14807	18	19.282	15.677	14879	12	15.927	17.882	14951	37	13.700	19.135	15023	10	17.974	21.162
14736	34	23.582	13.094	14808	50	20.510	15.816	14880	13	16.115	17.894	14952	26	18.546	19.054	15024	11	18.278	21.811
14737*	45	24.998	13.795	14809	34	21.341	15.034	14881	20	17.120	17.490	14953	46	19.470	19.407	15025	17	18.430	21.392
14738*	30	25.540	13.690	14810	17	21.758	15.132	14882	40	17.538	17.500	14954	16	19.986	19.933	15026	10	18.501	21.134
14739	33	0.716	14.564	14811	25	25.130	15.793	14883*	56	18.642	17.246	14955	12	19.999	19.824	15027	11	18.656	21.370
14740	11	2.508	14.426	14812	16	25.546	15.742	14884	11	19.364	17.731	14956	10	20.248	19.342	15028	13	19.564	21.298
14741	13	5.294	14.340	14813	28	0.614	16.880	14885	20	19.632	17.060	14957	12	20.858	19.557	15029	35	19.870	21.957
14742	11	5.312	14.156	14814	15	1.505	16.210	14886	17	20.270	17.500	14958	25	21.256	19.757	15030	27	20.850	21.630
14743	14	6.141	14.728	14815	13	2.836	16.208	14887	16	21.600	17.192	14959	10	22.100	19.442	15031	40	21.192	21.069
14744	15	7.041	14.193	14816	17	3.801	16.320	14888*	43	22.736	17.960	14960	18	22.130	19.842	15032	24	21.336	21.566
14745	14	8.440	14.424	14817	14	3.832	16.507	14889*	46	23.026	17.320	14961	13	22.510	19.934	15033	11	21.634	21.724
14746	25	8.704	14.045	14818	27	3.844	16.580	14890	12	23.194	17.375	14962	11	23.178	19.343	15034	33	23.472	21.020
14747	18	10.258	14.876	14819	14	4.260	16.710	14891	27	25.286	17.782	14963	25	24.258	19.452	15035	33	24.278	21.632
14748	28	10.644	14.550	14820	19	5.872	16.996	14892	11	25.752	17.339	14964	27	24.870	19.560	15036	29	24.454	21.200
14749*	61	12.156	14.536	14821	21	6.270	16.034	14893	27	25.828	17.724	14965	13	25.710	19.314	15037	26	24.580	21.770
14750	15	12.290	14.014	14822	18	7.546	16.235	14894	36	1.324	18.270	14966	26	0.150	20.370	15038*	57	24.804	21.104
14751	21	13.452	14.987	14823	10	9.602	16.580	14895	18	2.590	18.510	14967	47	0.490	20.774	15039	16	25.448	21.820
14752	15	13.810	14.048	14824	48	9.820	16.958	14896	28	3.337	18.902	14968	24	0.584	20.165	15040	15	25.660	21.971
14753	14	14.330	14.064	14825	28	9.960	16.470	14897	31	3.463	18.067	14969	18	3.050	20.734	15041	26	25.801	21.971
14754	49	14.400	14.664	14826	14	10.092	16.900	14898	14	4.353	18.712	14970	14	4.508	20.736	15042	10	0.424	22.881
14755	13	14.788	14.672	14827	10	10.234	16.201	14899	12	4.390	18.888	14971	12	4.746	20.420	15043	27	2.012	22.500
14756	10	15.382	14.883	14828	10	10.862	16.302	14900	33	5.300	18.066	14972	21	4.986	20.664	15044	19	2.731	22.805
14757	14	15.741	14.750	14829	11	11.608	16.010	14901	10	7.590	18.350	14973	15	5.160	20.332	15045	15	4.465	22.844
14758	12	15.914	14.499	14830	30	11.697	16.853	14902	16	11.233	18.600	14974	10	5.220	20.384	15046	49	5.396	22.808
14759	38	18.480	14.979	14831	26	12.464	16.034	14903	11	11.296	18.684	14975	14	6.077	20.443	15047	25	5.396	22.573
14760	14	19.631	14.578	14832	30	12.535	16.514	14904	26	11.436	18.306	14976	30	6.702	20.844	15048	10	5.692	22.840
14761	11	19.710	14.259	14833	11	13.760	16.306	14905	26	12.228	18.528	14977	19	7.260	20.570	15049	28	5.967	22.459
14762	15	19.872	14.472	14834	16	14.699	16.177	14906	45	13.246	18.914	14978	16	8.034	20.084	15050	10	6.984	22.922
14763	10	19.886	14.774	14835	29	15.478	16.680	14907	10	13.522	18.474	14979	19	10.478	20.577	15051	12	8.446	22.766
14764	13	20.511	14.932	14836	14	18.104	16.972	14908	18	15.166	18.730	14980	28	11.020	20.324	15052	25	8.475	22.657
14765	13	21.558	14.276	14837	12	18.277	16.776	14909	17	16.874	18.512	14981	10	12.040	20.143	15053	10	11.857	22.374
14766	15	22.160	14.450	14838	25	20.587	16.092	14910	13	18.570	18.803	14982	13	14.851	20.958	15054	44	13.155	22.482
14767	14	22.399	14.968	14839	13	21.693	16.478	14911	11	18.756	18.640	14983	17	15.630	20.818	15055	11	15.366	22.500
14768	40	22.428	14.402	14840	13	22.152	16.420	14912	30	19.124	18.908	14984	16	16.088	20.387	15056	32	15.393	22.708
14769	10	22.662	14.610	14841	40	22.393	16.036	14913*	65	19.194	18.142	14985	10	16.914	20.974	15057	18	15.639	22.223
14770	28	22.834	14.856	14842	18	22.465	16.422	14914	45	19.296	18.893	14986	34	17.160	20.954	15058	24	16.204	22.938
14771	15	23.863	14.659	14843	10	22.812	16.975	14915	23	19.699	18.644	14987	12	17.815	20.394	15059	23	17.250	22.779
14772	30	24.538	14.571	14844	11	22.938	16.112	14916	11	19.924	18.647	14988	16	17.876	20.884	15060	10	19.200	22.549
14773	43	24.626	14.500	14845	23	23.354	16.704	14917	17	20.556	18.766	14989	14	18.124	20.014	15061	24	19.700	22.720
14774	12	25.096	14.928	14846	47	24.430	16.987	14918	10	20.556	18.110	14990	14	19.229	20.528	15062	40	20.136	22.391
14775*	49	25.100	14.314	14847	12	24.589	16.124	14919	10	22.130	18.295	14991	18	19.408	20.278	15063	10	20.500	22.588
14776	18	25.308	14.216	14848	26	24.835	16.850	14920*	78	22.305	18.225	14992	26	19.737	20.777	15064	16	21.109	22.738
14777	26	1.772	15.110	14849	13	24.886	16.662	14921	24	22.804	18.237	14993	28	19.784	20.834	15065*	51	21.430	22.580
14778	18	2.264	15.316	14850	27	25.756	16.188	14922	28	23.907	18.290	14994	29	19.823	20.949	15066	13	21.911	22.639
14779	14	2.836	15.306	14851	12	25.926	16.823	14923	11	24.108	18.789	14995	23	19.850	20.578	15067	41	23.253	22.684
14780	42	3.045	15.790	14852	18	2.306	17.271	14924	18	25.016	18.728	14996	13	20.692	20.368	15068	24	2.380	23.116
14781	18	3.886	15.498	14853	33	3.131	17.413	14925	16	25.414	18.182	14997	16	21.480	20.612	15069	20	5.718	23.344
14782	12	4.952	15.420	14854	35	3.388	17.142	14926	16	0.312	19.178	14998	16	22.658	20.420	15070	16	5.872	23.656
14783*	47	5.881	15.586	14855	10	4.498	17.926	14927	17	1.361									



15082	14	15.494	23.204	15154	25	17.275	25.212	15243*	62	2.725	2.345	15315	20	15.715	4.464	15387	12	0.852	7.535
15083	17	15.685	23.860	15155	45	20.850	25.745	15244	32	3.015	2.535	15316	11	16.425	4.841	15388	10	3.171	7.210
15084	28	16.228	23.808	15156	12	21.968	25.908	15245	18	3.076	2.536	15317	12	17.597	4.525	15389	14	3.400	7.195
15085*	63	16.610	23.075	15157	10	22.220	25.935	15246	11	4.532	2.164	15318	35	18.405	4.713	15390	32	3.609	7.326
15086	12	18.334	23.564	15158	11	22.998	25.455	15247	11	5.772	2.720	15319	38	19.397	4.815	15391	20	4.200	7.241
15087	18	18.780	23.596	15159	25	25.346	25.597	15248*	60	6.133	2.660	15320	10	20.740	4.610	15392	20	4.716	7.264
15088	11	19.380	23.800					15249	14	7.538	2.630	15321*	60	21.026	4.269	15393	12	5.019	7.716
15089	20	19.757	23.820					15250	14	7.591	2.380	15322	14	22.510	4.786	15394	11	6.092	7.277
15090	11	20.410	23.330					15251	12	10.673	2.414	15323	17	23.595	4.729	15395	31	6.371	7.820
15091	13	20.908	23.727					15252	27	10.800	2.274	15324	52	24.295	1.946	15396	13	6.452	7.582
15092	10	20.966	23.536					15253	12	11.030	2.413	15325	20	24.952	4.610	15397	14	6.481	7.255
15093	32	21.080	23.458					15254	10	11.552	2.354	15326*	55	25.251	4.144	15398	10	6.624	7.644
15094	11	21.177	23.876					15255	10	11.756	2.456	15327	12	25.319	4.355	15399	10	7.096	7.512
15095	10	21.636	23.650					15256	13	12.834	2.660	15328	38	0.236	5.247	15400	30	7.218	7.721
15096	10	21.737	23.864					15257	15	13.168	2.592	15329	23	2.876	5.726	15401	11	7.370	7.105
15097	12	21.963	23.414					15258	15	13.680	2.070	15330	13	3.418	5.375	15402	33	7.635	7.445
15098	38	23.284	23.644					15259	19	13.920	2.815	15331	19	3.495	5.561	15403	17	7.844	7.209
15099	29	24.678	23.274					15260	10	15.316	2.166	15332	10	4.155	5.329	15404	11	8.032	7.355
15100*	63	25.271	23.544					15261	14	19.425	2.310	15333	12	7.052	5.625	15405	24	8.099	7.619
15101	28	25.690	23.554					15262	40	19.434	2.025	15334	12	7.698	5.085	15406	19	8.346	7.126
15102	18	25.847	23.550					15263	22	19.545	2.996	15335	12	8.168	5.634	15407	10	9.080	7.514
15103	14	0.450	24.450					15264	14	19.766	2.631	15336	28	8.455	5.376	15408	22	9.101	7.295
15104*	78	1.850	24.992					15265	13	20.276	2.285	15337	10	8.629	5.387	15409	25	9.502	7.712
15105*	49	3.546	24.800					15266	13	21.306	2.150	15338	16	8.712	5.011	15410	20	9.639	7.252
15106	17	3.732	24.710					15267	40	22.951	2.601	15339	12	10.120	5.866	15411	20	9.644	7.214
15107	15	5.592	24.815					15268*	52	24.656	2.311	15340	36	10.377	5.635	15412	10	10.288	7.245
15108	10	5.794	24.606					15269	12	24.739	2.104	15341	38	12.084	5.095	15413*	60	10.302	7.255
15109	32	6.133	24.730					15270	28	1.111	3.947	15342	12	12.530	5.675	15414	28	10.430	7.591
15110	19	7.207	24.322					15271	26	2.720	3.567	15343	11	13.681	5.629	15415	31	10.666	7.652
15111	16	7.210	24.940					15272	15	3.328	3.138	15344	20	13.715	5.214	15416*	41	10.978	7.065
15112	26	7.553	24.472					15273	36	4.710	3.454	15345	32	15.898	5.306	15417*	39	12.354	7.106
15113	28	7.653	24.474					15274	23	5.656	3.800	15346	12	16.099	5.732	15418	18	12.774	7.284
15114	16	8.976	24.100					15275	10	5.955	3.157	15347	14	16.445	5.014	15419	14	14.905	7.052
15115	11	10.736	24.382					15276	12	5.964	3.056	15348	15	20.428	5.430	15420	14	16.386	7.868
15116	15	11.072	24.291					15277	19	7.674	3.162	15349	12	21.675	5.268	15421	20	18.138	7.319
15117	26	12.514	24.035					15278	11	8.476	3.556	15350	40	22.946	5.408	15422	11	18.443	7.528
15118	21	13.348	24.101					15279	11	8.692	3.893	15351	42	25.947	5.510	15423	28	18.450	7.390
15119	43	13.640	24.510					15280	13	9.074	3.080	15352	27	1.226	6.056	15424	22	20.731	7.445
15120	14	14.562	24.464					15281	12	9.836	3.445	15353	12	1.426	6.985	15425	14	21.230	7.334
15121	13	15.016	24.802					15282	34	11.162	3.410	15354	20	4.400	6.771	15426	12	21.495	7.662
15122	10	15.560	24.120					15283	24	11.410	3.684	15355	11	5.538	6.852	15427	12	22.115	7.198
15123	10	16.250	24.990					15284*	51	12.006	3.183	15356	17	6.044	6.181	15428	25	24.064	7.810
15124	12	16.488	24.660					15285	11	13.366	3.465	15357	11	6.776	6.862	15429	24	24.988	7.280
15125	28	16.944	24.804					15286	29	13.726	3.946	15358*	35	7.135	6.013	15430	24	1.864	8.051
15126	36	17.236	24.424					15287	28	14.678	3.515	15359	14	9.376	6.455	15431	11	2.485	8.931
15127	11	17.296	24.260					15288	12	14.720	3.201	15360	12	10.342	6.238	15432	12	4.828	8.618
15128	12	17.681	24.232					15289	42	14.764	3.928	15361	21	10.940	6.426	15433	21	6.048	8.613
15129	27	19.670	24.554					15290	13	15.260	3.268	15362	12	11.919	6.100	15434	10	6.072	8.542
15130	18	19.709	24.836					15291	40	17.311	3.802	15363	14	12.326	6.107	15435	10	7.174	8.466
15131	18	20.961	24.787					15292	11	18.712	3.644	15364	38	12.422	6.241	15436	22	7.652	8.641
15132	10	21.156	24.340					15293	12	20.110	3.736	15365	12	12.684	6.376	15437	12	8.065	8.785
15133	47	21.614	24.786					15294	13	20.534	3.688	15366	13	13.225	6.538	15438	27	8.947	8.155
15134*	77	23.256	24.969					15295	20	22.971	3.538	15367	16	13.645	6.812	15439	20	9.546	8.224
15135	12	24.026	24.037					15296	12	23.395	3.411	15368	11	14.122	6.666	15440	12	9.672	8.880
15136	11	24.190	24.992					15297	14	23.440	3.675	15369	10	15.450	6.681	15441	10	10.106	8.546
15137	55	24.492	24.695					15298	13	23.705	3.302	15370	19	15.865	6.745	15442	12	10.153	8.106
15138	33	24.646	24.966					15299	40	24.588	3.325	15371	22	17.226	6.836	15443*	51	10.735	8.487
15139	11	0.921	25.981					15300	21	25.164	3.834	15372	35	18.838	6.968	15444	24	11.389	8.200
15140	22	2.035	25.967					15301	43	25.505	3.901	15373	12	19.282	6.590	15445	16	11.404	8.557
15141	27	2.634	25.195					15302*	60	0.085	4.486	15374	22	19.668	6.155	15446	12	11.579	8.316
15142	31	3.200	25.807					15303	15	3.492	4.906	15375*	76	19.686	6.240	15447	25	12.064	8.085
15143	26	5.089	25.322					15304	14	5.444	4.700	15376	20	19.830	6.672	15448	20	12.589	8.516
15144	10	6.450	25.280					15305	40	5.624	4.225	15377	38	20.475	6.695	15449	11	14.148	8.348
15145	20	6.690	25.056					15306	15	6.178	4.154	15378	13	20.580	6.033	15450	12	14.182	8.624
15146	48	7.565	25.820					15307	20	8.725	4.574	15379	10	22.761	6.023	15451	16	19.500	8.917
15147	16	9.304	25.000					15308	12	9.408	4.078	15380	16	22.786	6.485	15452*	42	19.816	8.877
15148	12	11.890	25.638					15309	12	10.056	4.704	15381	14	22.876	6.665	15453	13	20.760	8.764
15149	16	12.709	25.370					15310	40	10.820	4.665	15382	25	23.206	6.500	15454	38	22.696	8.660
15150	51	13.400	25.508					15311	24	11.882	4.763	15383	15	23.765	6.098	15455	20	23.476	8.985
15151	21	14.100	25.280					15312	34	11.940	4.605	15384	14	25.501</					



15459	19	4.225	9.271	15531	20	7 260	11.394	15603	13	16.802	12 558	15675	40	13.339	14.505	15747	17	9.855	16 186
15460	13	4.770	9.265	15532	20	9 388	11.348	15604	19	18.060	12 908	15676	14	13.404	14.126	15748	16	10.235	16.116
15461	29	5 737	9.472	15533	19	9 916	11.645	15605	22	18.790	12 819	15677	12	13.502	14.865	15749*	80	10.863	16.414
15462	23	6.426	9.155	15534	14	9 964	11.104	15606	18	18.858	12 224	15678	14	14.265	14.039	15750	13	12.739	16 818
15463	32	6.806	9.846	15535	12	10 195	11.820	15607	15	19 831	12 214	15679	32	14.740	14.075	15751	20	13.360	16 808
15464	17	7 616	9.185	15536	25	10.335	11.644	15608*	38	19 950	12 988	15680	14	15.890	14.175	15752	22	13.936	16.246
15465*	40	7.713	9.496	15537	13	10.470	11.812	15609	14	20.850	12.368	15681	15	16 825	14.335	15753	15	14.025	16.256
15466	17	7.822	9.268	15538	18	10.528	11.914	15610	18	20.916	12.914	15682	20	18.450	14.292	15754	16	14.490	16.251
15467	10	8.261	9.606	15539	24	10 586	11.984	15611	23	21 202	12 425	15683	22	18 574	14.984	15755	17	15.155	16.305
15468	15	9.555	9.198	15540	14	10.824	11.824	15612	40	21 794	12.880	15684	10	18.578	14.268	15756	11	15.513	16.168
15469	14	9 742	9.632	15541	10	11.084	11.656	15613	19	21.796	12 614	15685	28	18.784	14.952	15757	24	15.770	16.108
15470	13	12.115	9.575	15542	21	11.930	11.725	15614	14	21 978	12 541	15686	19	19.151	14.502	15758	12	19.662	16 394
15471	23	12.470	9.544	15543	15	12.205	11.745	15615	10	22 214	12 314	15687	12	19 198	14 658	15759	13	19.744	16.633
15472	27	12.793	9.944	15544*	80	13 656	11.824	15616	20	22 530	12.475	15688	11	19.606	14 137	15760*	39	20 820	16.275
15473	36	13.250	9.104	15545	10	14.160	11.584	15617	20	23.020	12.332	15689	12	20.142	14.772	15761	16	21.282	16 736
15474	13	14.886	9.335	15546	21	14 935	11.556	15618	21	23.354	12.045	15690	39	21.402	14.875	15762	18	22.985	16.839
15475	13	15 174	9.042	15547	23	15.186	11.398	15619	11	23.364	12.168	15691	17	22.120	14.035	15763	10	25.540	16.006
15476	12	16.396	9.900	15548	19	15.524	11.555	15620	20	23 486	12.292	15692	17	22 555	14 139	15764	46	25.696	16 055
15477	11	16 950	9.146	15549	11	16.471	11.672	15621	19	24.255	12 236	15693	12	22.628	14.216	15765	19	25 835	16.291
15478	12	18.520	9.867	15550	10	16.544	11.574	15622	31	24 871	12.750	15694	12	23.761	14.112	15766	34	1 077	17.154
15479	15	19.394	9.151	15551*	52	16.563	11.446	15623	13	24.925	12.923	15695	28	23.875	14 106	15767	16	1.482	17.007
15480	24	20.028	9.667	15552	13	16.582	11.292	15624	15	25 215	12 077	15696*	37	24.012	14 784	15768	22	1.952	17.930
15481	16	20.322	9.601	15553	14	16.854	11.900	15625	25	0.150	13.281	15697	14	24.072	14 566	15769	20	2.492	17.864
15482	42	21.292	9.046	15554	22	17.074	11.074	15626*	40	1.576	13.950	15698	40	25.379	14.043	15770	21	2.754	17.952
15483	14	24.870	9.560	15555	24	17.258	11.475	15627*	25	2.120	13 834	15699	25	25.856	14.436	15771*	40	3.795	17.370
15484	40	25.138	9.718	15556	13	17.310	11.265	15628	12	3.966	13 984	15700	17	1.755	15.945	15772	20	4.056	17.692
15485	14	25.400	9.873	15557	26	17 645	11 664	15629	22	4.091	13 512	15701	12	2 168	15 886	15773	13	4.615	17.796
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15487	28	0.734	10.334	15559	12	18 646	11 145	15631	12	4.208	13 374	15703	13	4.556	15.204	15775	12	8.428	17.054
15488	28	0.810	10.116	15560	28	18 828	11 396	15632	14	4 596	13.986	15704	11	4.854	15 040	15776	33	8.672	17.754
15489	28	0.910	10.545	15561	28	19.735	11.900	15633	12	4.787	13.414	15705	11	5.200	15.363	15777	14	10.152	17.905
15490*	36	1.950	10.604	15562	10	21 114	11.802	15634	14	5.326	13.495	15706	25	5.355	15.772	15778	19	10.225	17.646
15491	10	2.586	10.544	15563	17	21.886	11 150	15635	12	5.924	13 085	15707	26	5.584	15 565	15779	11	12.476	17.898
15492	13	2 904	10.696	15564	11	22.249	11.832	15636	20	6.036	13.325	15708	20	5.635	15 325	15780	19	13 734	17.364
15493	14	3.056	10.366	15565	12	23 864	11.234	15637	12	6.385	13.271	15709	11	5.976	15.796	15781	21	14.678	17 285
15494	11	4.313	10.080	15566	16	24 618	11.386	15638	10	6.385	13 086	15710	32	6.215	15.796	15782	12	14 865	17.930
15495	11	5 126	10.306	15567	25	24.694	11.929	15639	26	6.804	13 474	15711	14	7.045	15.434	15783	24	15 775	17.388
15496	25	6 100	10.847	15568	19	25 002	11.228	15640*	36	6 830	13.039	15712	17	7.076	15.992	15784	10	15.870	17.083
15497	11	6.476	10.245	15569	10	25.767	11.509	15641	16	7.390	13 385	15713	18	7 677	15.064	15785	19	16 666	17.295
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15499	14	8.328	10.580	15571	32	0.665	12 502	15643	14	12 097	13 685	15715	10	9.734	15.134	15787	19	17.790	17.428
15500	18	8 964	10.823	15572	12	0 761	12.610	15644	14	12.110	13.220	15716	21	9 851	15.716	15788*	60	18.089	17.811
15501	18	9.734	10 386	15573	25	0.808	12.425	15645	12	13.647	13.856	15717	24	10.042	15.274	15789	23	18.184	17.085
15502	14	10.456	10.580	15574	10	0.900	12.615	15646	13	13.750	13 640	15718	11	10.154	15.652	15790	19	18.516	17 584
15503	22	11.578	10.965	15575	12	1.636	12.976	15647	21	14.074	13.272	15719	10	10 676	15.044	15791	23	19.478	17.696
15504	13	14.024	10 308	15576	10	1.959	12.300	15648	15	15.205	13.565	15720	10	12.272	15.908	15792	33	21.134	17 993
15505	12	14.397	10.159	15577	28	2.094	12.357	15649	13	17.085	13.854	15721	13	12 702	15.137	15793	24	21.407	17.749
15506	13	14.606	10.544	15578	25	2.776	12.855	15650	12	17.216	13.926	15722	10	12.800	15.574	15794	14	21.775	17.425
15507	13	15.728	10.158	15579	38	4.546	12.421	15651	22	19.219	13.926	15723*	40	13.392	15.476	15795	12	22.303	17.262
15508	10	15.766	10.306	15580	14	5.869	12.361	15652	15	19.409	13.706	15724	25	14.410	15 254	15796	16	22.614	17.964
15509	22	15.990	10.050	15581	12	5.900	12.532	15653	17	19.766	13.303	15725	20	15.205	15.330	15797	22	22.993	17.665
15510*	72	16.126	10.615	15582	22	6.415	12.330	15654	12	19.800	13.304	15726	21	15.866	15.449	15798	17	23 085	17 624
15511	14	16.712	10.398	15583*	36	6.723	12.464	15655	17	20.915	13.910	15727	11	16.565	15.744	15799	12	23.544	17.570
15512	10	17.396	10.376	15584	14	7.514	12.982	15656	12	22.420	13.244	15728	15	17.109	15.378	15800	33	23.790	17.695
15513	12	17.504	10.725	15585	11	8.254	12.604	15657	15	23.165	13.708	15729	22	17.872	15.038	15801	27	25 796	17.154
15514	35	17.630	10.986	15586	24	9.424	12.985	15658	20	23.825	13 636	15730	12	19.311	15.090	15802	22	0.584	18.466
15515	22	17.853	10.716	15587*	47	11.181	12.386	15659	10	24.438	13.827	15731	15	19.876	15.854	15803	14	1.702	18 882
15516	15	18.610	10.971	15588	16	12 022	12.901	15660	10	0.463	14.836	15732*	40	19.916	15.589	15804	10	2.088	18.325
15517	13	18.860	10.455	15589*	40	12.105	12.350	15661	24	1.135	14.736	15733	14	19.952	15.015	15805	14	3.054	18.386
15518	16	19.422	10.755	15590	19	12.380	12.258	15662	36	1 220	14 664	15734	14	20.694	15.320	15806	12	6.285	18.204
15519	12	24.696	10.889	15591	22	12.490	12.486	15663*	40	1.688	14.466	15735	34	21.233	15.700	15807	12	8 396	18.205
15520	25	25.508	10.283	15592	16	12.914	12.086	15664	11	1.990	14.366	15736	10	22.592	15.398	15808			



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16201	12	0.239	4.866	16273	10	4.620	6.169	16345	39	25.958	7.336	16417	13	20.036	9.498	16489	21	19.352	11.570
16202	19	1.324	4.804	16274*	49	4.700	6.537	16346	40	0.444	8.738	16418	8	20.318	9.983	16490	11	20.296	11.556
16203	24	2.680	4.674	16275	17	5.944	6.756	16347	17	1.910	8.736	16419	31	20.950	9.946	16491	20	20.586	11.596
16204*	58	2.964	4.208	16276	9	6.259	6.373	16348	34	3.494	8.528	16420	9	21.455	9.176	16492	12	20.706	11.346
16205	13	3.041	4.144	16277	15	7.504	6.286	16349	25	3.756	8.036	16421	10	21.584	9.572	16493	14	20.946	11.368
16206	8	4.278	4.532	16278	37	9.836	6.800	16350	9	6.453	8.677	16422	13	22.591	9.784	16494	40	20.984	11.536
16207*	42	4.520	4.868	16279	11	10.254	6.548	16351	23	8.274	8.679	16423	8	22.595	9.418	16495	9	21.172	11.346
16208	27	5.914	4.834	16280	19	11.480	6.346	16352	24	9.306	8.870	16424	30	22.667	9.076	16496	13	21.254	11.726
16209	18	5.954	4.249	16281	18	12.673	6.586	16353	32	9.340	8.765	16425	13	22.714	9.676	16497	21	22.130	11.232
16210	40	7.204	4.092	16282	13	13.213	6.520	16354	12	10.410	8.221	16426	9	22.714	9.598	16498	12	23.234	11.614
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16214	10	12.734	4.124	16286*	54	16.492	6.234	16358	12	12.298	8.427	16430	38	25.120	9.834	16502	14	25.534	11.202
16215	12	13.441	4.390	16287*	43	17.396	6.086	16359	10	12.629	8.872	16431	38	25.936	9.181	16503	13	25.945	11.128
16216	30	13.450	4.196	16288	18	17.852	6.696	16360	15	13.729	8.150	16432	32	3.268	10.344	16504	20	0.306	12.558
16217	9	13.462	4.554	16289	10	17.852	6.030	16361	20	14.386	8.066	16433	24	3.789	10.726	16505	19	0.794	12.406
16218	22	15.304	4.454	16290	11	18.516	6.267	16362	14	14.874	8.426	16434	9	4.630	10.976	16506	25	1.125	12.120
16219	17	16.076	4.673	16291*	52	18.874	6.216	16363	8	15.184	8.986	16435	10	5.272	10.272	16507	19	1.262	12.366
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16221	22	18.401	4.653	16293	12	20.028	6.696	16365	21	17.864	8.095	16437	21	7.334	10.396	16509	36	2.646	12.816
16222	23	19.984	4.536	16294	12	20.704	6.272	16366	19	18.006	8.906	16438	10	8.720	10.197	16510	14	2.704	12.986
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16224*	59	20.572	4.646	16296	23	23.313	6.985	16368	22	18.528	8.838	16440	16	9.131	10.456	16512	12	4.260	12.640
16225*	52	20.788	4.966	16297	18	23.535	6.646	16369	36	18.677	8.975	16441	13	10.076	10.532	16513	41	4.378	12.071
16226	18	23.126	4.128	16298	41	24.016	6.026	16370	33	18.748	8.347	16442	15	10.905	10.696	16514	8	4.854	12.105
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16228	13	24.218	4.708	16300	36	24.190	6.576	16372	42	18.755	8.342	16444	15	13.044	10.106	16516	13	5.475	12.068
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16230*	62	24.722	4.224	16302	36	1.806	7.880	16374	9	21.355	8.360	16446	15	14.466	10.532	16518	20	6.380	12.836
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16232*	60	24.888	4.674	16304	21	3.749	7.526	16376	22	22.897	8.626	16448	18	14.878	10.558	16520	15	7.105	12.462
16233	14	24.938	4.836	16305	17	4.736	7.226	16377	16	23.250	8.606	16449	16	15.264	10.674	16521	38	7.603	12.738
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16245	13	10.656	5.886	16317*	44	10.657	7.097	16389	9	4.897	9.442	16461	12	2.386	11.454	16533	9	16.125	12.840
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17298	11	14-730	7-051	17370	38	17-209	8-770	17442	20	20-546	9-223	17514	14	24-086	11-270	17556	33	17-918	12-307
17299	41	14-784	7-202	17371	10	17-868	8-340	17443	13	23-770	9-872	17515	21	3-506	11-442	17557	12	18-509	12-082
17300	33	15-230	7-240	17372	14	18-339	8-330	17444	11	24-060	9-496	17516	14	3-918	11-362	17558	34	20-935	12-590
17301	26	16-308	7-850	17373	26	19-026	8-297	17445*	43	24-456	9-004	17517	30	4-446	11-681	17559	23	21-016	12-881
17302	21	16-784	7-230	17374	12	19-570	8-897	17446	28	25-921	9-794	17518	24	4-768	11-271	17560	21	21-112	12-086
17303	12	17-254	7-522	17375	10	19-798	8-501	17447	10	1-020	10-440	17519	15	5-204	11-052	17561	15	21-819	12-751
17304	10	17-768	7-603	17376	17	20-034	8-824	17448	10	1-536	10-370	17520	39	5-239	11-104	17562	37	21-866	12-713
17305	10	17-823	7-599	17377	18	21-496	8-872	17449	37	3-068	10-080	17521	12	5-737	11-116	17563	41	22-059	12-620
17306	16	19-228	7-920	17378	19	22-212	8-816	17450	38	3-990	10-140	17522	15	5-768	11-874	17564	15	23-310	12-167
17307	43	21-046	7-314	17379	31	22-424	8-514	17451	39	4-010	10-072	17523	15	6-052	11-436	17565	15	23-668	12-168
17308	35	22-292	7-792	17380	20	22-636	8-656	17452	15	4-114	10-165	17524	27	6-420	11-698	17566	10	25-528	12-925
17309	11	24-216	7-846	17381	16	23-544	8-875	17453	17	4-202	10-491	17525	10	6-846	11-312	17567	20	0-151	13-589
17310	10	24-925	7-988	17382	32	23-832	8-179	17454	42	4-358	10-867	17526	14	7-948	11-564	17568	35	1-210	13-372
17311	10	25-134	7-438	17383	31	25-222	8-936	17455	18	4-815	10-610	17527	25	8-103	11-800	17569	16	2-922	13-660
17312	15	25-419	7-319	17384	15	25-284	8-043	17456*	57	4-819	10-988	17528	26	8-110	11-866	17570	20	3-882	13-798
17313	45	0-247	8-255	17385	25	0-608	9-360	17457	34	4-912	10-466	17529	10	9-180	11-508	17571	38	4-460	13-880
17314	24	0-834	8-905	17386	10	1-335	9-667	17458	35	4-994	10-344	17530*	128	9-254	11-452	17572	14	4-907	13-990
17315	15	1-184	8-882	17387	10	1-425	9-633	17459	15	5-018	10-196	17531	19	9-308	11-859	17573	19	1-966	13-575
17316	45	1-756	8-657	17388	10	2-588	9-859	17460	32	5-066	10-220	17532	25	9-442	11-421	17574	28	5-734	13-028
17317	35	3-154	8-970	17389	35	3-875	9-414	17461	18	5-412	10-741	17533	22	9-534	11-854	17575	10	6-153	13-368
17318	35	3-304	8-624	17390	13	4-396	9-200	17462	20	5-460	10-770	17534	36	9-561	11-242	17576	18	6-582	13-140
17319	18	3-447	8-144	17391*	71	4-920	9-464	17463	10	5-625	10-446	17535	42	9-910	11-248	17577	10	6-684	13-583
17320	40	3-891	8-913	17392	16	4-989	9-477	17464	25	5-698	10-994	17536	27	9-959	11-744	17578	22		



17618	10	11.302	13 887	17690	42	8 970	15.614	17762	46	12.128	17.732	17834	17	12 244	19 200	17906	21	15 316	21.456
17619	30	14 560	13.064	17691	16	9.184	15 708	17763	25	12.278	17 424	17835	39	15 118	19 330	17907	22	15.580	21 338
17620	10	15.866	13.347	17692	11	9.296	15.686	17764	10	12 822	17.482	17836	27	15 234	19 928	17908	10	16 664	21 764
17621	42	16 247	13 278	17693	16	9 529	15 624	17765	33	18 088	17 638	17837	13	15.494	19 762	17909	40	17 980	21 955
17622	69	16 326	13 290	17694	11	9 537	15 734	17766	10	18 097	17 020	17838	34	15 536	19.694	17910	40	17 983	21.526
17623	19	16.455	13 382	17695	37	9.666	15.833	17767	25	18 821	17 624	17839	10	15.543	19 791	17911	38	18.091	21 666
17624	34	16.544	13.784	17696	30	11.646	15 618	17768	24	18 916	17 216	17840	34	15 705	19 287	17912	14	20 192	21 216
17625	11	16 826	13 714	17697	40	11.326	15.167	17769	24	19 355	17 103	17841	19	16 326	19.798	17913	16	20 215	21 308
17626	29	16.976	13 036	17698	25	12 616	15 508	17770	16	19 566	17.029	17842	10	16.488	19 666	17914	44	20 232	21.786
17627	14	17.642	13 054	17699	10	12 806	15.296	17771	34	19 752	17.388	17843	35	16.554	19.448	17915	21	20 720	21.244
17628	23	17 955	13.625	17700	11	13 494	15 966	17772	10	20.342	17.694	17844	31	16 862	19.597	17916	32	21 645	21.276
17629	15	19.845	13.216	17701	10	14.101	15.825	17773	30	20 188	17 229	17845	20	17 106	19.192	17917	36	22 994	21.112
17630	12	20.888	13 640	17702	20	15 074	15.536	17774	33	20 532	17.738	17846	12	18.725	19 080	17918	28	24.858	21.823
17631	10	20.980	13.083	17703	22	15.241	15.585	17775	14	21 102	17.439	17847	40	19.336	19.148	17919	10	24.866	21.547
17632	24	21.778	13.430	17704	10	15.266	15 356	17776	39	21 694	17 621	17848	43	20 680	19 993	17920	10	25.510	21 656
17633	14	21.991	13.618	17705	12	15 811	15.198	17777	14	22 466	17.512	17849	29	23 638	19.704	17921	24	3 172	22 267
17634	34	22.069	13.438	17706	15	16 229	15.861	17778	10	22.528	17.946	17850	14	23.855	19 403	17922	19	4.568	22 088
17635	13	23.111	13.770	17707	37	16 455	15.560	17779	11	22 741	17.240	17851	11	24 196	19.754	17923	10	4 776	22 794
17636	10	24.392	13.284	17708	31	17.781	15 794	17780	10	22.850	17.598	17852	10	24.495	19 134	17924	36	6 757	22.474
17637	20	24 765	13.374	17709	40	19.214	15.326	17781	10	23.735	17 752	17853	12	25.204	19 496	17925	12	10 790	22.103
17638	85	24.830	13.224	17710	16	19.513	15 930	17782	10	23.836	17.755	17854	11	25.911	19.884	17926	16	10.732	22.857
17639	16	25 284	13.596	17711	10	20.674	15.026	17783	28	25.178	17 546	17855	12	2.100	20.196	17927	22	11.640	22.877
17640	33	25.500	13.294	17712	44	21.688	15.968	17784	21	25 196	17 753	17856	11	3.180	20.793	17928	12	12 019	22.933
17641	37	2 088	14.647	17713	35	24.034	15 748	17785	10	25.764	17 912	17857	44	3.295	20.408	17929	17	13 236	22.192
17642	43	2.322	14.814	17714	10	24.690	15.390	17786	34	0 384	18.738	17858	31	3.980	20 951	17930	13	13 850	22.032
17643	47	2.554	14.114	17715	38	25.564	15.251	17787	31	0.395	18 576	17859	23	4.878	20 609	17931	13	14 210	22.460
17644	60	2.606	14.655	17716	13	0.325	16.021	17788	42	0 716	18.366	17860	10	5 197	20.709	17932	44	14 322	22.214
17645	15	3.206	14 306	17717	10	2.254	16.440	17789	11	2.606	18.815	17861	13	5.350	20 450	17933	11	15.544	22 252
17646	29	3.422	14.503	17718	26	2.404	16 074	17790	15	2.965	18.420	17862	14	7.404	20.771	17934	14	15.925	22.316
17647	15	3.826	14.024	17719	33	3.630	16 266	17791	10	3.776	18 234	17863	17	7.413	20.116	17935	11	16 614	22.808
17648	29	4.579	14 084	17720	41	4.805	16 174	17792	25	4 244	18 286	17864	11	7.894	20.921	17936	11	17.510	22.447
17649	10	5 427	14.822	17721	20	5.435	16.820	17793	13	4.344	18.344	17865	40	8.631	20 014	17937	10	17 973	22 218
17650	34	5 754	14.261	17722	10	5 770	16.865	17794	12	5 694	18.728	17866	38	9.264	20.467	17938	19	18 364	22.104
17651	35	8.169	14.232	17723	36	6.202	16.453	17795	10	6.160	18.584	17867	10	10 134	20.440	17939	12	19.055	22 386
17652	38	8.748	14.184	17724	14	6 204	16 064	17796	12	8 158	18.378	17868	24	11 004	20.660	17940	32	19 310	22.853
17653	35	9 192	14.154	17725	24	6 494	16.794	17797	23	9 230	18.740	17869	14	11 990	20.588	17941	10	21.239	22.532
17654	13	10 858	14 825	17726	41	6.578	16.952	17798	22	10.042	18.947	17870	35	13.354	20.762	17942	12	21.320	22.068
17655	11	11 116	14.236	17727	38	7.154	16.580	17799	23	10 698	18.802	17871	29	15 230	20.024	17943	60	21 754	22.246
17656	30	11.300	14.158	17728	36	7.241	16.618	17800	14	11 872	18.136	17872	16	16.083	20.201	17944	34	22 016	22.268
17657	37	12.094	14.318	17729	23	7 831	16.976	17801	40	12.890	18 191	17873	31	17.045	20.232	17945	23	22 012	22.098
17658	34	12.686	14.910	17730	14	7.983	16.182	17802	15	15.265	18.990	17874	10	17.532	20.632	17946	34	23 274	22 310
17659	39	13.114	14.347	17731	25	7.999	16.830	17803	14	15 656	18.146	17875	27	20.246	20.528	17947	42	24 466	22 102
17660	21	13.298	14.682	17732	10	9.750	16.084	17804	34	17 270	18.773	17876	42	24.436	20.043	17948	23	0 855	23.504
17661	10	13.549	14.134	17733	15	10 322	16.231	17805	11	19 124	18 649	17877	10	25.034	20.822	17949	15	1 106	23.570
17662	10	14.230	14.900	17734	41	10 754	16.994	17806	10	19.436	18.096	17878	68	25.714	20 895	17950	28	1 224	23 914
17663	19	14.486	14.342	17735	17	11.085	16.582	17807	16	19 704	18 672	17879	35	0 633	21.436	17951	41	6.714	23.274
17664	10	15 600	14.023	17736	21	11 870	16.614	17808	11	20 101	18.748	17880	24	1.246	21.112	17952	27	7.836	23.120
17665	10	15.864	14.690	17737	40	11 878	16.788	17809	15	20.840	18.078	17881	10	1.410	21 848	17953	13	9.219	23.756
17666	10	16.193	14.101	17738	12	11.966	16.432	17810	34	21.599	18.629	17882	20	1.705	21.146	17954	12	9 379	23 928
17667	30	16.292	14.886	17739	23	12.352	16.515	17811	21	24.293	18.864	17883	14	1.784	21.726	17955	42	9 642	23.430
17668	10	16.468	14.928	17740	10	12.400	16.120	17812	11	25.768	18.168	17884	21	2.444	21 829	17956	13	9.948	23.744
17669	16	16.572	14.444	17741	20	12.502	16.668	17813	10	25.782	18 768	17885	20	3.706	21.902	17957	18	10 546	23 788
17670	38	17.760	14.110	17742	27	13.112	16.218	17814	13	1.436	19.080	17886	11	4.616	21.966	17958	18	10.556	23 841
17671	29	21.500	14.403	17743	27	13.144	16.908	17815	40	3.700	19 691	17887	12	4.740	21.508	17959	26	11.136	23.186
17672	22	22 917	14.466	17744	10	13.967	16.306	17816	22	5.461	19.281	17888	26	5.644	21.366	17960	29	11.143	23.332
17673	42	23.835	14.580	17745	10	14.216	16.530	17817	44	6.253	19.766	17889	19	6.220	21 595	17961	11	11.614	23 788
17674	11	23.918	14.418	17746	32	16.464	16.264	17818	14	6.588	19.734	17890	38	6.360	21.578	17962	42	11 643	23.957
17675	32	23.925	14.689	17747	18	17.980	16.962	17819	25	7.045	19.494	17891	41	6.856	21.801	17963	23	11.835	23.456
17676	14	24.104	14.503	17748	25	18.711	16.128	17820	35	7.224	19.940	17892	18	7 590	21.190	17964	32	14 054	23 074
17677	13	24.186	14.551	17749	35	20.018	16.616	17821	17	7.550	19.332	17893	18	8.196	21.574	17965	15	14.626	23.874
17678	39	25.923	14.394	17750	17	20.821	16.218	17822	27	8.244	19.336	17894	15	9 315	21 666	17966	44	15.826	23.262
17679	17	25.938	14.138	17751	41	22.876	16.370	17823	21	8.641	19.965	17895							



17978	34	3 624	24.148	<b>R.A. 6<sup>h</sup> 52<sup>m</sup></b> Plate 1570; 1920 Feb. 14. <i>Provisional Constants.</i> A B C -01732 +00479 +1425 D E F -00186 -01735 -2919 Mag. = 17.3 - 1.05√d	18106	16	23 574	0.750	18178	32	14.478	2.474	18250	26	21 673	3.375
17979	22	4.062	24.570		18107	14	2 172	1.608	18179	38	14.966	2.644	18251	12	22.956	3.752
17980	9	4.910	24.678		18108	29	2.390	1.724	18180	22	15 106	2.861	18252	17	23.408	3.750
17981	12	6.594	24.738		18109	10	2 520	1.867	18181	42	15 528	2.558	18253	10	24.154	3.814
17982	12	6.928	24.749		18110	17	3.110	1.573	18182	21	15 983	2.602	18254	27	24.170	3.180
17983	19	7.331	24.988		18111	20	3 590	1.683	18183	15	17.550	2.464	18255	25	24.212	3.197
17984	30	7.558	24.554		18112	28	4.634	1.102	18184	29	19 010	2.702	18256	12	25.354	3.752
17985	11	8.120	24.984		18113	14	4.945	1.097	18185	16	20 272	2.396	18257	17	25.882	3.538
17986	19	9.590	24.444		18114	138	5.236	1.872	18186	15	20 424	2.690	18258	47	25.991	3.806
17987	10	9.812	24 050		18115	13	5.320	1.615	18187	14	20 470	2.081	18259	10	0.826	4.526
17988	18	10 346	24 496		18116	13	5.792	1.175	18188	29	20.570	2.920	18260	33	1.600	4.864
17989	29	11.312	24 063		18117	15	5.822	1.506	18189	23	21 050	2.256	18261	27	1.660	4.290
17990	13	11.626	24 472		18118	28	6.824	1.361	18190	21	21.140	2.171	18262	15	2.068	4.127
17991	36	11.686	24 084		18119	29	6.899	1.788	18191	14	21.376	2.683	18263	17	2.124	4.701
17992	19	12 007	24 690		18120	16	7.289	1.135	18192	45	22.208	2.641	18264	26	3.059	4.527
17993	15	14.319	24.652		18121	27	7.348	1.464	18193	15	23.228	2.380	18265	10	3.068	4.856
17994	16	16.227	24.272		18122	21	7.715	1.264	18194	13	23.800	2.836	18266	10	3.222	4.912
17995	16	16.501	24 332		18123	31	8.179	1.272	18195	12	24.019	2.764	18267	12	3.426	4.960
17996	22	16 502	24.632		18124	25	8.302	1.632	18196	15	24 110	2.729	18268	10	3.500	4.352
17997	32	16.556	24 020		18125	37	8.438	1.721	18197	11	24.231	2.890	18269	10	3.521	4.308
17998	23	16.666	24.838		18126	33	9.030	1.664	18198	28	24.974	2.318	18270	26	3.576	4.272
17999	15	17.206	24.660		18127	11	9.414	1.020	18199	34	25.182	2.800	18271	21	4.550	4.448
18000	28	17 468	24.460		18128	33	10.119	1.390	18200	22	25.206	2.350	18272	25	5.028	4.442
18001	13	19 557	24 908		18129	23	11.647	1.223	18201	10	1.470	3.602	18273	10	6.264	4.916
18002	29	21.432	24.850		18130	24	12.277	1.128	18202	28	1.946	3.410	18274	17	6.308	4.499
18003	39	22.386	24.069		18131	27	12.813	1.196	18203	39	2.175	3.168	18275	36	6.342	4.388
18004	13	23.436	24.204		18132	23	13.120	1.704	18204	38	2.776	3.869	18276	32	6.412	4.450
18005	15	23.960	24.988		18133	10	13.400	1.240	18205	13	2.850	3.767	18277	29	7.180	4.925
18006	17	24.316	24.214		18134	29	13.486	1.306	18206	22	4.256	3.840	18278	45	7.574	4.617
18007	13	25.288	24.471		18135	10	13.538	1.368	18207	21	4.946	3.809	18279	34	8.070	4.494
18008	24	0.974	25.689		18136	17	14.567	1.252	18208	15	5.130	3.964	18280	42	8.527	4.491
18009	17	1 015	25.247		18137	34	15.664	1.854	18209	22	5.358	3.825	18281	17	9.260	4.558
18010	29	1 516	25 400		18138	19	16.290	1.962	18210	13	6.772	3.624	18282	53	9.375	4.352
18011	30	2.572	25.872		18139	44	17 310	1.509	18211	27	7.366	3.350	18283	50	9.405	4.092
18012	15	3.069	25 247		18140	31	18.330	1.120	18212	25	7.540	3.237	18284	46	9.498	4.050
18013	10	3.756	25.530		18141	43	18 408	1.840	18213	15	7.979	3.582	18285	18	10.400	4.449
18014	13	4.832	25.060		18142	38	18.590	1.224	18214	31	8.030	3.468	18286	10	10.431	4.366
18015	10	5 588	25.594		18143	41	18.606	1.808	18215	17	8.856	3.134	18287	21	10.936	4.034
18016	12	6.176	25.034		18144	18	19.020	1.335	18216	27	9.244	3.044	18288	12	11.160	4.830
18017	10	6.556	25.768		18145	11	19.848	1.916	18217	120	9.416	3.922	18289	13	11.178	4.734
18018	30	7.544	25.509		18146	11	20.656	1.884	18218	10	10.250	3.194	18290	13	11.850	4.520
18019	41	8 612	25 311		18147	26	22 140	1.057	18219	27	10.430	3.470	18291	16	12.034	4.656
18020	40	8 916	25.580		18148	31	22.624	1.274	18220	27	11.010	3.760	18292	16	12.470	4.928
18021	25	10.112	25.881		18149	18	23.440	1.494	18221	31	11.834	3.560	18293	16	12.618	4.982
18022	77	11 578	25 022		18150	13	23.741	1.010	18222	12	12.620	3.300	18294	39	13.018	4.850
18023	29	11.590	25 001		18151	11	23 810	1.783	18223	10	12.740	3.236	18295	35	13.416	4.745
18024	19	12.164	25 471		18152	16	25.190	1.748	18224	13	12.796	3.977	18296	15	13.608	4.980
18025	16	14.316	25.924		18153	17	25.444	1.478	18225	48	12.896	3.524	18297	15	14.885	4.535
18026	37	14.506	25.302		18154	26	0.117	2.235	18226	19	13.031	3.630	18298	14	15.280	4.014
18027	31	16.342	25.401		18155	21	1.340	2.806	18227	27	13.833	3.664	18299	14	15.486	4.533
18028	22	16.564	25 764		18156	32	1.924	2.180	18228	24	13.958	3.058	18300	14	15.526	4.535
18029	44	19.340	25 212		18157	16	2.276	2.175	18229	13	14.446	3.845	18301	17	15.696	4.672
18030	42	20.752	25.590		18158	10	2.852	2.584	18230	41	15.120	3.315	18302	14	15.726	4.934
18031	35	21.636	25.250		18159	32	3.979	2.646	18231	27	15.419	3.660	18303	47	15.960	4.364
18032	37	21.904	25.106		18160	24	4.164	2.960	18232	29	15.610	3.253	18304	39	16.052	4.363
18033	46	23.182	25.384		18161	21	7.175	2.336	18233	10	15 620	3.345	18305	13	16.181	4.994
18034	11	23.271	25.671		18162	25	7.394	2.454	18234	37	16.069	3.460	18306	43	16.700	4.833
18035	42	24.128	25.216		18163	17	7.406	2.770	18235	10	16.478	3.744	18307	14	16.818	4.316
18036	13	24 263	25.160		18164	21	7.904	2.136	18236	12	16.510	3.548	18308	28	17.624	4.116
					18037	17	19.463	0.546	18237	23	16.674	3.860	18309	12	18.249	4.410
					18038	33	19.559	0.436	18238	10	16.780	3.414	18310	20	18.336	4.218
					18039	45	19.672	0.060	18239	18	16.886	3.858	18311	14	18.497	4.359
					18040	29	19.961	0.088	18240	12	17.164	3.625	18312	12	18.592	4.542
					18041	51	19.980	0.354	18241	15	17.304	3.338	18313	17	19.364	4.325
					18042	13	21.590	0.479	18242	10	17.334	3.174	18314	17	19.884	4.130
					18043	17	21.700	0.183	18243	16	17.607	3.693	18315	29	19.896	4.234
					18100	17	22.231	0.850	18244	28	18.081	3.642	18316	44	19.935	4.756
					18101	27	22 728	0.045	18245	16	18.322	3.050	18317	16	20.168	4.424
					18102	10	22 912	0.807	18246	28	18.392	3.074	18318	10	20.496	4.467
					18103	18	23.132	0.410	18247	15	18.730	3.372	18319	26	20.564	4.060
					18104	115	23.468	0.836	18248	14	20.030	3.353	18320	18	20.646	4.250
					18105	13	23.506	0.102	18249	13	20.500	3.456	18321	21	20.980	4.990



18322	26	21.448	4.664	18394	26	1.622	6.480	18466	17	25.606	6.824	18538	26	17.800	8.540	18610	16	24.976	9.110
18323	28	21.646	4.417	18395	18	1.676	6.213	18467	31	0.473	7.810	18539	43	18.193	8.202	18611	29	25.194	9.119
18324	11	21.690	4.782	18396	11	2.182	6.764	18468	19	2.400	7.874	18540	20	20.192	8.176	18612	26	25.220	9.939
18325	12	22.642	4.794	18397	10	2.263	6.268	18469	19	3.316	7.454	18541	10	20.220	8.836	18613	13	25.220	9.958
18326	27	23.350	4.320	18398	15	2.440	6.792	18470	26	3.597	7.332	18542	15	20.509	8.316	18614	16	0.593	10.153
18327	45	24.179	4.244	18399	13	2.580	6.013	18471	12	3.926	7.344	18543	76	20.725	8.340	18615	25	1.267	10.181
18328	15	24.254	4.060	18400	23	2.811	6.974	18472	16	4.518	7.389	18544	15	20.768	8.882	18616	16	1.852	10.490
18329	12	24.703	4.930	18401	14	3.510	6.344	18473	23	4.688	7.488	18545	13	21.496	8.590	18617	17	2.010	10.934
18330	36	25.316	4.758	18402	10	3.760	6.748	18474	19	5.233	7.186	18546	14	21.610	8.454	18618	15	3.066	10.120
18331	28	25.406	4.420	18403	30	4.078	6.006	18475	11	5.638	7.712	18547	14	21.886	8.804	18619	24	4.350	10.204
18332	11	0.100	5.684	18404	16	4.187	6.467	18476	16	7.070	7.414	18548	37	22.067	8.690	18620	25	4.493	10.898
18333	28	1.658	5.683	18405	24	4.426	6.064	18477	15	7.072	7.519	18549	46	22.200	8.326	18621	18	4.910	10.926
18334	23	2.214	5.426	18406	20	4.984	6.074	18478	41	7.670	7.330	18550	28	23.118	8.524	18622	17	5.204	10.781
18335	10	2.474	5.176	18407	24	5.160	6.376	18479	11	8.857	7.850	18551	18	23.390	8.789	18623	13	5.660	10.537
18336	19	3.280	5.170	18408	11	5.280	6.317	18480	54	9.444	7.110	18552	25	24.286	8.842	18624	26	6.902	10.005
18337	13	3.776	5.792	18409	16	5.548	6.388	18481	23	9.704	7.404	18553	14	24.606	8.990	18625	15	7.415	10.268
18338	44	3.842	5.623	18410	26	6.135	6.236	18482	13	10.050	7.353	18554	38	24.747	8.126	18626	12	7.916	10.662
18339	26	4.148	5.241	18411	16	7.230	6.297	18483	21	10.207	7.108	18555	13	25.174	8.412	18627	11	8.860	10.706
18340	10	4.840	5.216	18412	38	7.731	6.837	18484	12	11.226	7.676	18556	47	25.360	8.064	18628	46	9.898	10.511
18341	23	5.240	5.902	18413	14	8.242	6.992	18485	36	12.300	7.689	18557	14	25.660	8.493	18629	14	11.238	10.829
18342	50	5.455	5.054	18414	18	8.568	6.426	18486	12	12.477	7.317	18558	10	25.940	8.492	18630	13	11.298	10.235
18343	12	5.850	5.844	18415	10	8.820	6.590	18487	28	12.562	7.968	18559	10	1.414	9.274	18631	16	12.332	10.160
18344	27	5.907	5.006	18416	24	9.072	6.314	18488	25	14.227	7.835	18560	15	1.646	9.910	18632	27	12.690	10.467
18345	25	6.358	5.428	18417	26	9.989	6.580	18489	23	14.401	7.616	18561	24	1.976	9.904	18633	41	12.892	10.320
18346	26	7.618	5.613	18418	36	10.298	6.602	18490	17	15.476	7.360	18562	19	2.260	9.525	18634	14	13.133	10.608
18347	32	7.670	5.970	18419	30	11.300	6.378	18491	12	15.488	7.702	18563	49	2.649	9.118	18635	14	13.512	10.946
18348	14	7.774	5.770	18420	18	11.627	6.002	18492	26	15.697	7.646	18564	10	3.634	9.466	18636	13	13.598	10.416
18349	25	7.790	5.206	18421	16	12.250	6.457	18493	19	16.044	7.030	18565	18	3.772	9.730	18637	16	13.994	10.434
18350	18	8.169	5.632	18422	22	12.766	6.728	18494	11	16.134	7.884	18566	30	4.125	9.802	18638	14	14.874	10.711
18351	19	9.384	5.140	18423	31	12.807	6.458	18495	23	16.196	7.849	18567	25	4.502	9.934	18639	29	15.731	10.332
18352	15	10.984	5.212	18424	31	12.878	6.826	18496	11	16.380	7.200	18568	11	4.910	9.822	18640	13	15.870	10.284
18353	14	12.443	5.180	18425	46	12.984	6.893	18497	10	16.522	7.864	18569	29	5.462	9.050	18641	49	16.326	10.536
18354	11	12.620	5.182	18426	18	13.684	6.840	18498	14	17.126	7.182	18570	18	5.470	9.062	18642	16	16.414	10.128
18355	16	12.898	5.268	18427	26	13.760	6.932	18499	32	17.320	7.956	18571	21	5.766	9.852	18643	11	16.618	10.260
18356	25	13.940	5.686	18428	14	14.087	6.177	18500	12	17.884	7.524	18572	14	6.456	9.000	18644	30	17.185	10.930
18357	11	14.818	5.154	18429	13	14.166	6.577	18501	17	17.910	7.160	18573	31	6.471	9.210	18645	21	17.540	10.183
18358	14	14.855	5.096	18430	11	14.440	6.078	18502	19	18.518	7.567	18574	18	6.500	9.036	18646	62	17.722	10.437
18359	16	15.117	5.007	18431	27	15.720	6.624	18503	16	18.659	7.990	18575	32	6.550	9.736	18647	13	18.419	10.762
18360	19	15.186	5.522	18432	25	16.948	6.054	18504	16	19.537	7.682	18576	14	6.665	9.330	18648	10	18.493	10.877
18361	16	15.230	5.576	18433	11	17.060	6.513	18505	17	19.800	7.233	18577	17	6.914	9.882	18649	34	18.812	10.160
18362	12	15.416	5.116	18434	21	18.098	6.935	18506	11	21.625	7.130	18578	20	7.305	9.248	18650	12	19.270	10.150
18363	16	15.482	5.068	18435	13	18.396	6.550	18507	18	22.720	7.795	18579	20	7.436	9.905	18651	25	19.286	10.336
18364	14	15.880	5.626	18436	15	18.482	6.250	18508	11	23.302	7.387	18580	13	8.256	9.910	18652	14	20.120	10.634
18365	10	15.920	5.050	18437	12	19.275	6.156	18509	13	25.918	7.996	18581	23	8.268	9.023	18653	38	20.614	10.558
18366	10	16.388	5.040	18438	26	19.448	6.341	18510	24	0.407	8.866	18582	26	10.384	9.168	18654	10	20.954	10.504
18367	20	16.678	5.414	18439	20	19.572	6.907	18511	30	0.612	8.560	18583	25	10.418	9.910	18655	13	21.014	10.250
18368	33	17.335	5.028	18440	55	19.657	6.266	18512	27	0.828	8.700	18584	28	10.874	9.612	18656	19	21.200	10.618
18369	16	17.336	5.110	18441	26	19.756	6.955	18513	13	1.364	8.612	18585	31	11.606	9.764	18657	22	21.697	10.202
18370	14	17.420	5.862	18442	13	20.020	6.664	18514	26	1.738	8.910	18586	27	11.997	9.238	18658	15	21.937	10.475
18371	27	17.454	5.150	18443	29	20.080	6.346	18515	35	2.017	8.210	18587	12	13.330	9.819	18659	18	22.298	10.908
18372	10	18.186	5.380	18444	31	20.383	6.700	18516	20	3.112	8.005	18588	13	14.200	9.346	18660	13	23.040	10.804
18373	40	18.200	5.916	18445	45	20.600	6.920	18517	34	3.416	8.953	18589	14	14.866	9.098	18661	19	23.540	10.298
18374	10	18.331	5.206	18446	34	20.661	6.048	18518	23	3.468	8.058	18590	15	15.453	9.716	18662	14	23.870	10.179
18375	29	18.564	5.791	18447	43	20.804	6.628	18519	14	4.206	8.790	18591	13	15.642	9.777	18663	37	24.338	10.216
18376	69	18.657	5.266	18448	21	20.908	6.582	18520	14	5.138	8.201	18592	10	15.652	9.292	18664	49	24.352	10.646
18377	25	20.712	5.454	18449	14	20.919	6.834	18521	18	6.338	8.512	18593	21	16.374	9.496	18665	10	25.124	10.760
18378	44	20.850	5.969	18450	14	21.076	6.370	18522	41	6.564	8.889	18594	18	17.478	9.306	18666	25	25.794	10.543
18379	14	21.050	5.664	18451	21	21.099	6.562	18523	11	8.159	8.859	18595	19	17.583	9.969	18667	27	25.900	10.182
18380	15	21.490	5.456	18452	14	21.620	6.436	18524	25	8.743	8.573	18596	11	17.963	9.920	18668	10	0.406	11.510
18381	10	21.990	5.314	18453	25	21.692	6.280	18525	28	10.970	8.494	18597	32	19.182	9.780	18669	40	0.770	11.587
18382	23	22.456	5.553	18454	15	22.458	6.394	18526	11	11.546	8.964	18598	28	19.702	9.793	18670	15	0.861	11.912
18383	38	22.533	5.593	18455	12	23.296	6.863	18527	11	11.846	8.858	18599	28	19.990	9.244	18671	16	1.640	11.025
18384	27	22.888	5.144	18456	52	23.413	6.196	18528	14	12.424	8.294	18600	16	20.393	9.393	18672	35	1.656	11.144
18																			



18682	13	7 216	11.653	18754	15	12 593	12.361	18826	27	16 559	13.392	18898	29	17.666	14.764	18970	21	17.245	15.846
18683	13	7.448	11.550	18755	44	12.631	12.894	18827	18	16.724	13.377	18899	11	18.706	14.304	18971	53	17.700	15.388
18684	28	7.584	11.676	18756	52	14.530	12.612	18828	13	16.740	13.283	18900	14	18.788	14.624	18972	17	17.880	15.761
18685	22	8.430	11.864	18757	13	14.534	12.544	18829	29	17.544	13.696	18901	27	19.842	14.850	18973	13	18.498	15.120
18686	11	8.640	11.007	18758	98	14.716	12.061	18830	10	18.120	13.235	18902	10	19.850	14.992	18974	16	18.559	15.654
18687	26	8.884	11.790	18759	55	15.375	12.894	18831	19	18.244	13.584	18903	10	19.897	14.781	18975	12	18.680	15.570
18688	10	9.951	11.330	18760	11	17.247	12.428	18832	18	19.596	13.924	18904	11	20.153	14.764	18976	20	18.908	15.050
18689	12	10.026	11.340	18761	38	17.745	12.636	18833	14	20.032	13.012	18905	11	20.324	14.810	18977	20	18.915	15.912
18690	20	10.030	11.308	18762	16	18.072	12.092	18834	10	20.710	13.538	18906	23	20.559	14.223	18978	12	19.185	15.351
18691	10	10.182	11.680	18763	13	18.221	12.744	18835	14	21.500	13.425	18907	11	20.918	14.491	18979	13	19.231	15.380
18692	15	10.402	11.650	18764	13	18.556	12.734	18836	18	22.540	13.222	18908	18	21.278	14.997	18980	23	19.324	15.084
18693	10	11.760	11.650	18765	44	18.660	12.062	18837	15	22.544	13.693	18909	13	21.320	14.045	18981	16	19.374	15.300
18694	14	12.256	11.448	18766	37	18.809	12.472	18838	10	22.820	13.913	18910	35	21.425	14.382	18982	15	20.167	15.127
18695	15	12.557	11.296	18767	11	19.029	12.238	18839	29	22.854	13.664	18911	38	21.871	14.130	18983	11	20.207	15.121
18696	11	13.053	11.134	18768	21	19.217	12.540	18840	20	22.949	13.807	18912	19	22.132	14.220	18984	27	20.790	15.989
18697	29	13.376	11.660	18769	17	19.315	12.774	18841	47	23.028	13.929	18913	37	23.013	14.824	18985	73	21.138	15.267
18698	10	14.234	11.302	18770	23	19.708	12.000	18842	14	23.545	13.770	18914	40	23.057	14.136	18986	48	21.390	15.428
18699	40	14.729	11.020	18771	12	19.810	12.598	18843	15	23.557	13.758	18915	17	23.072	14.698	18987	11	21.402	15.650
18700	19	15.373	11.310	18772	17	20.192	12.730	18844	58	23.686	13.940	18916	13	23.180	14.702	18988	26	21.722	15.368
18701	26	15.380	11.529	18773	19	20.272	12.142	18845	21	23.924	13.658	18917	17	23.901	14.766	18989	10	22.264	15.879
18702	78	16.450	11.410	18774	10	20.592	12.391	18846	14	23.960	13.619	18918	16	24.033	14.706	18990	20	22.680	15.900
18703	14	17.400	11.053	18775	12	20.940	12.542	18847	12	24.096	13.665	18919	14	24.414	14.198	18991	11	23.500	15.070
18704	16	18.063	11.474	18776	55	21.116	12.768	18848	15	24.382	13.227	18920	10	24.518	14.570	18992	10	23.975	15.440
18705	14	18.173	11.064	18777	15	21.172	12.380	18849	29	24.440	13.850	18921	18	24.730	14.888	18993	18	24.192	15.116
18706	11	18.232	11.841	18778	48	21.350	12.536	18850	18	24.578	13.324	18922	29	24.926	14.109	18994	10	24.697	15.450
18707	26	18.234	11.180	18779	10	21.445	12.134	18851	19	25.044	13.209	18923	40	25.235	14.740	18995	10	25.605	15.726
18708	40	18.325	11.184	18780	28	21.535	12.496	18852	11	25.368	13.124	18924	14	25.589	14.515	18996	11	0.200	16.720
18709	17	18.360	11.520	18781	10	21.960	12.320	18853	32	25.626	13.365	18925	11	25.786	14.398	18997	15	0.766	16.954
18710	17	18.910	11.475	18782	28	23.409	12.580	18854	21	25.840	13.210	18926	19	25.853	14.352	18998	38	1.150	16.414
18711	51	19.092	11.268	18783	10	23.550	12.783	18855	10	0.970	14.983	18927	12	1.234	15.034	18999	10	2.770	16.493
18712	15	19.520	11.825	18784	45	24.016	12.327	18856	26	1.172	14.508	18928	33	2.303	15.778	19000	12	2.888	16.512
18713	14	20.534	11.523	18785	15	24.310	12.272	18857	45	2.088	14.614	18929	19	2.957	15.412	19001	29	4.360	16.990
18714	24	20.938	11.834	18786	26	25.192	12.265	18858	19	2.175	14.450	18930	10	3.724	15.660	19002	17	4.365	16.302
18715	12	21.014	11.698	18787	34	25.463	12.450	18859	30	2.184	14.720	18931	38	3.828	15.263	19003	12	4.666	16.182
18716	14	21.107	11.546	18788	20	25.885	12.672	18860	20	2.361	14.533	18932	13	4.235	15.363	19004	17	5.164	16.970
18717	16	21.346	11.080	18789	26	0.021	13.485	18861	18	2.444	14.580	18933	10	4.518	15.380	19005	16	5.254	16.036
18718	15	21.366	11.186	18790	17	0.238	13.672	18862	13	3.408	14.448	18934	23	4.771	15.636	19006	19	5.330	16.796
18719	14	22.156	11.532	18791	29	0.313	13.490	18863	40	4.178	14.403	18935	26	5.140	15.766	19007	15	5.453	16.510
18720	26	22.198	11.330	18792	20	1.360	13.812	18864	26	4.192	14.147	18936	10	5.152	15.632	19008	29	6.024	16.660
18721	10	22.430	11.594	18793	16	2.636	13.310	18865	12	4.450	14.346	18937	10	5.215	15.562	19009	18	6.634	16.424
18722	28	22.668	11.912	18794	14	2.776	13.580	18866	14	5.144	14.944	18938	11	6.206	15.284	19010	25	6.797	16.563
18723	10	23.810	11.190	18795	25	3.010	13.397	18867	13	6.780	14.054	18939	21	6.472	15.086	19011	28	6.830	16.393
18724	24	23.888	11.370	18796	96	3.062	13.244	18868	14	6.965	14.540	18940	18	6.770	15.067	19012	52	7.170	16.822
18725	19	24.642	11.216	18797	10	3.392	13.010	18869	16	7.718	14.764	18941	23	7.520	15.682	19013	12	8.727	16.870
18726	14	25.144	11.662	18798	26	3.534	13.612	18870	13	7.773	14.736	18942	12	8.014	15.509	19014	46	9.391	16.014
18727	11	25.740	11.152	18799	30	3.744	13.306	18871	18	7.820	14.718	18943	15	8.192	15.631	19015	17	9.577	16.791
18728	17	0.086	12.808	18800	16	4.612	13.535	18872	16	7.848	14.375	18944	32	8.254	15.982	19016	25	10.310	16.846
18729	38	0.100	12.766	18801	19	5.672	13.310	18873	14	8.248	14.284	18945	30	8.938	15.821	19017	29	10.567	16.834
18730	43	0.293	12.672	18802	12	6.929	13.854	18874	15	9.410	14.304	18946	22	8.976	15.486	19018	10	10.897	16.364
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18732	24	1.546	12.705	18804	19	7.756	13.186	18876	10	11.223	14.431	18948	18	9.522	15.916	19020	16	11.390	16.244
18733	23	1.904	12.502	18805	42	8.028	13.771	18877	17	11.800	14.320	18949	11	9.534	15.460	19021	24	11.797	16.087
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18738	13	4.860	12.855	18810	11	10.520	13.202	18882	28	12.326	14.618	18954	21	10.802	15.230	19026	16	13.988	16.715
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18741	18	7.883	12.911	18813	16	12.260	13.555	18885	18	15.437	14.585	18957	13	13.165	15.677	19029	10	17.510	16.200
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19043	21	22-040	16-267	19115	10	3-508	18-848	19187	10	2-637	19 897	19259	14	4-167	20 806	19331	10	9 679	21-760
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19423	38	16.316	22.916	19495	29	14.060	23.044	19567	26	16.336	24.453	19639	37	16.694	25.244	19725	28	18.612	0.275
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19433	16	19.601	22.300	19505	13	17.662	23.940	19577	15	19.180	24.568	19649	17	20.868	25.722	19735	23	24.490	0.840
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19435	17	19.710	22.249	19507	31	18.296	23.228	19579	17	20.066	24.106	19651	48	21.614	25.740	19737	14	25.555	0.305
19436	21	19.970	22.668	19508	18	18.310	23.347	19580	11	20.774	24.398	19652	12	21.817	25.478	19738	20	0.285	1.549
19437	17	20.186	22.707	19509	14	18.370	23.275	19581	12	21.214	24.883	19653	19	22.390	25.285	19739*	100	1.116	1.103
19438	17	20.418	22.030	19510	14	18.470	23.086	19582	28	21.736	24.084	19654	30	22.464	25.358	19740	20	3.895	1.752
19439	18	20.558	22.969	19511	16	18.726	23.887	19583	13	22.077	24.801	19655	31	22.752	25.049	19741	25	3.930	1.238
19440	13	20.627	22.784	19512*	46	19.029	23.074	19584	38	22.080	24.806	19656	52	22.886	25.458	19742	24	4.645	1.384
19441	27	20.715	22.232	19513	26	19.079	23.557	19585	20	23.338	24.162	19657	51	23.530	25.362	19743	12	6.524	1.554
19442	15	20.783	22.970	19514	11	19.326	23.091	19586	42	23.763	24.234	19658	13	23.658	25.216	19744	15	6.757	1.483
19443	15	21.430	22.582	19515	15	19.430	23.113	19587	14	23.950	24.356	19659	14	24.314	25.850	19745	12	8.054	1.493
19444	17	21.494	22.337	19516	37	19.491	23.522	19588	37	24.002	24.700	19660	40	24.386	25.440	19746	16	8.430	1.948
19445	18	21.504	22.212	19517	16	19.927	23.930	19589	23	24.109	24.070	19661	14	24.420	25.720	19747	14	9.602	1.180
19446	17	21.996	22.620	19518	30	20.620	23.126	19590	10	24.884	24.800	19662	25	24.738	25.454	19748	34	9.700	1.772
19447	17	22.082	22.281	19519	11	20.842	23.300	19591	21	25.060	24.914	19663	25	24.897	25.850	19749	30	11.028	1.419
19448	26	22.230	22.172	19520	10	20.870	23.590	19592	23	25.134	24.114	19664	26	25.288	25.626	19750	40	11.628	1.562
19449	25	22.974	22.125	19521	14	21.206	23.790	19593	26	25.526	24.465	19665	24	25.473	25.864	19751	14	11.649	1.292
19450	39	23.124	22.360	19522	20	21.608	23.750	19594	18	25.528	24.978	19666	26	25.598	25.522	19752	29	12.083	1.704
19451	23	23.320	22.689	19523	19	21.662	23.390	19595	28	25.594	24.481					19753	31	13.112	1.455
19452	11	23.508	22.100	19524	22	22.631	23.320	19596	17	25.832	24.346					19754	21	13.160	1.072
19453	12	23.608	22.732	19525	27	22.802	23.144	19597	38	0.012	25.310					19755	14	14.200	1.206
19454	15	23.936	22.480	19526	14	23.108	23.479	19598	49	0.276	25.163					19756*	70	14.840	1.412
19455	10	24.048	22.078	19527	15	23.450	23.400	19599	51	1.554	25.426					19757	13	14.842	1.166
19456	26	24.080	22.600	19528	17	23.930	23.672	19600	23	1.657	25.716					19758	25	14.934	1.115
19457	14	24.568	22.528	19529	46	24.165	23.540	19601	27	2.336	25.021					19759	13	15.070	1.314
19458	20	24.676	22.550	19530*	92	24.178	23.960	19602*	50	2.500	25.248					19760	32	15.504	1.895
19459	11	25.070	22.700	19531	30	25.579	23.640	19603	26	2.642	25.191					19761	13	18.125	1.441
19460	16	0.000	23.830	19532	45	0.748	24.120	19604	16	2.840	25.327					19762	12	18.735	1.718
19461	13	1.844	23.290	19533	25	1.801	24.244	19605	16	2.995	25.711					19763	15	19.265	1.032
19462	32	2.424	23.600	19534	28	2.684	24.246	19606	13	3.046	25.816					19764	14	19.700	1.241
19463	18	3.134	23.250	19535	28	3.660	24.491	19607	10	4.546	25.799					19765	14	22.536	1.048
19464	25	3.680	23.906	19536	11	3.890	24.726	19608	15	5.276	25.783					19766	38	25.575	1.259
19465	11	4.191	23.700	19537	12	4.260	24.424												



19776	20	10.134	2.683	19848	18	7.160	4.992	19920	19	20.828	5.669	19992	13	13.912	7.724	20064	10	1.130	9.054
19777	25	10.914	2.170	19849	13	8.487	4.595	19921	24	20.922	5.425	19993*	49	14.966	7.512	20065	12	2.024	9.098
19778	12	12.152	2.073	19850	14	8.614	4.772	19922	35	21.300	5.834	19994	12	15.851	7.936	20066	13	2.230	9.584
19779	17	13.245	2.819	19851	12	9.436	4.424	19923	19	21.431	5.670	19995	18	16.687	7.447	20067	10	2.715	9.357
19780	17	13.976	2.755	19852	16	9.524	4.493	19924	14	22.051	5.740	19996	14	16.765	7.105	20068	20	2.935	9.364
19781	11	15.512	2.663	19853	19	10.120	4.406	19925	17	22.964	5.524	19997	13	17.298	7.636	20069	14	3.976	9.765
19782	19	15.889	2.310	19854	16	10.677	4.580	19926	10	22.966	5.052	19998	21	17.592	7.328	20070	23	4.258	9.324
19783	33	18.332	2.339	19855	22	10.748	4.425	19927	14	23.110	5.045	19999	25	17.730	7.585	20071	13	4.409	9.805
19784	22	18.360	2.740	19856	20	11.062	4.400	19928	42	23.220	5.389	20000	22	17.856	7.136	20072	25	4.903	9.242
19785	12	18.371	2.272	19857*	46	11.141	4.016	19929	11	23.320	5.169	20001	31	19.322	7.304	20073	20	5.065	9.831
19786	14	18.574	2.299	19858	14	11.215	4.930	19930	12	24.800	5.142	20002	11	19.415	7.049	20074	30	6.239	9.168
19787	12	19.866	2.488	19859	12	12.516	4.858	19931	12	25.041	5.908	20003	14	19.688	7.226	20075	21	6.257	9.354
19788	23	20.090	2.160	19860	20	13.786	4.755	19932*	42	1.120	6.462	20004	12	20.180	7.109	20076	14	6.570	9.130
19789	40	20.470	2.527	19861	22	13.944	4.442	19933	12	1.598	6.699	20005	11	20.373	7.795	20077	10	9.305	9.118
19790*	60	20.940	2.332	19862	17	14.111	4.555	19934*	74	2.458	6.761	20006	12	20.448	7.584	20078	25	9.768	9.074
19791	11	21.844	2.304	19863	13	15.729	4.989	19935	14	3.788	6.815	20007	17	20.971	7.207	20079	24	10.398	9.626
19792	14	23.634	2.364	19864	42	17.120	4.024	19936	13	4.178	6.682	20008	26	21.560	7.986	20080	12	10.574	9.073
19793	24	23.706	2.815	19865	10	18.519	4.328	19937	12	4.954	6.884	20009	26	21.600	7.932	20081	15	10.705	9.854
19794	40	24.633	2.404	19866	34	19.913	4.030	19938	36	5.735	6.626	20010	33	22.622	7.894	20082	19	10.824	9.814
19795	16	25.244	2.858	19867	22	22.469	4.435	19939	21	6.335	6.428	20011	38	23.431	7.764	20083	24	11.085	9.818
19796	10	1.791	3.188	19868	13	22.654	4.214	19940	13	6.846	6.946	20012	32	24.292	7.277	20084	11	11.228	9.339
19797	15	1.850	3.435	19869	12	22.674	4.045	19941	21	8.810	6.128	20013	12	24.848	7.526	20085	20	11.614	9.618
19798	14	1.895	3.454	19870	11	23.469	4.217	19942	14	9.026	6.674	20014	11	0.449	8.065	20086	14	12.644	9.846
19799	20	2.858	3.047	19871	14	23.615	4.955	19943	10	9.370	6.710	20015	16	0.854	8.790	20087	24	13.471	9.698
19800	12	3.566	3.776	19872	37	25.416	4.800	19944*	32	10.123	6.934	20016	28	2.474	8.375	20088	13	14.238	9.498
19801	21	5.288	3.234	19873	14	25.840	4.396	19945	11	10.878	6.256	20017	40	3.085	8.306	20089	13	14.416	9.818
19802	13	5.304	3.197	19874	12	0.160	5.827	19946	12	11.810	6.046	20018	10	3.396	8.734	20090	13	15.396	9.450
19803	11	5.314	3.174	19875	25	0.236	5.868	19947	13	12.798	6.250	20019	24	4.026	8.695	20091	14	15.540	9.665
19804	18	5.442	3.970	19876	14	0.590	5.415	19948	31	13.550	6.552	20020	15	5.370	8.434	20092	25	16.094	9.899
19805	39	5.544	3.634	19877	15	1.461	5.817	19949	23	14.220	6.487	20021	12	5.658	8.544	20093	14	16.959	9.705
19806	25	5.705	3.090	19878	23	2.095	5.953	19950	21	14.226	6.584	20022	20	6.602	8.594	20094	16	17.288	9.624
19807	13	6.215	3.523	19879	14	2.799	5.805	19951	28	14.507	6.689	20023	20	7.055	8.115	20095	11	17.385	9.501
19808	20	6.525	3.966	19880	21	3.014	5.004	19952	24	14.925	6.458	20024	14	7.410	8.404	20096	12	18.676	9.815
19809	15	6.852	3.060	19881	12	3.155	5.418	19953	11	15.426	6.454	20025	12	8.295	8.790	20097	11	19.142	9.745
19810	11	7.868	3.600	19882	14	3.920	5.842	19954	40	15.445	6.765	20026	14	8.917	8.611	20098	12	19.450	9.780
19811	13	9.034	3.276	19883	13	3.976	5.295	19955	20	15.595	6.695	20027	14	9.984	8.704	20099	26	20.751	9.171
19812	15	9.131	3.586	19884	40	4.284	5.914	19956	25	16.822	6.046	20028	15	10.016	8.968	20100	34	21.195	9.696
19813	14	10.147	3.782	19885*	41	4.301	5.935	19957	31	17.180	6.255	20029	14	10.544	8.974	20101	13	21.204	9.216
19814	13	10.177	3.602	19886	11	4.354	5.865	19958	22	18.016	6.395	20030	31	10.895	8.015	20102	33	21.405	9.440
19815	26	10.204	3.573	19887	40	4.956	5.814	19959	12	18.264	6.115	20031	11	10.945	8.808	20103	12	21.419	9.015
19816	15	10.385	3.392	19888	12	5.045	5.660	19960	20	19.220	6.758	20032	12	11.904	8.333	20104	10	21.556	9.406
19817	12	10.715	3.756	19889	33	5.070	5.050	19961	17	20.244	6.910	20033	14	12.136	8.620	20105	20	21.715	9.480
19818	15	10.839	3.315	19890	23	5.298	5.191	19962	20	20.433	6.695	20034	11	12.325	8.255	20106	12	23.908	9.034
19819	22	11.282	3.285	19891	44	5.541	5.081	19963	16	22.562	6.030	20035	12	13.782	8.062	20107*	60	23.945	9.075
19820	11	12.216	3.230	19892	22	5.919	5.873	19964	13	24.244	6.914	20036*	51	14.371	8.822	20108	22	25.686	9.946
19821	17	12.751	3.485	19893	24	6.599	5.480	19965	14	24.808	6.987	20037	10	14.424	8.616	20109	12	25.724	9.970
19822	12	13.236	3.595	19894	13	6.912	5.285	19966	18	25.179	6.914	20038	40	14.685	8.669	20110	12	1.296	10.559
19823	14	15.151	3.394	19895	20	7.025	5.694	19967	10	25.288	6.190	20039	24	16.274	8.275	20111	14	1.794	10.246
19824	22	15.398	3.902	19896	14	7.046	5.359	19968	12	25.960	6.190	20040	11	16.340	8.299	20112	30	2.087	10.469
19825*	51	15.814	3.835	19897	11	7.070	5.560	19969	15	1.689	7.255	20041*	56	16.572	8.355	20113	40	2.105	10.901
19826	12	16.025	3.124	19898	18	7.415	5.814	19970	12	2.076	7.136	20042	11	17.440	8.312	20114	15	2.969	10.184
19827	12	18.159	3.075	19899	14	8.600	5.173	19971*	57	2.755	7.176	20043	17	17.700	8.515	20115	16	3.548	10.784
19828	12	19.078	3.214	19900	15	8.711	5.688	19972	12	3.186	7.055	20044	18	18.285	8.200	20116	20	3.652	10.421
19829	18	20.115	3.464	19901	20	8.934	5.438	19973	12	3.324	7.066	20045	10	18.466	8.135	20117	13	4.190	10.398
19830	12	20.216	3.650	19902	20	9.606	5.058	19974	19	3.875	7.375	20046	16	19.365	8.615	20118	10	4.371	10.880
19831	57	20.512	3.620	19903	12	11.161	5.054	19975	12	6.064	7.545	20047	12	19.700	8.732	20119	10	4.599	10.688
19832	12	20.627	3.693	19904	12	11.588	5.970	19976	12	6.500	7.509	20048	14	20.374	8.605	20120	15	5.259	10.876
19833	31	22.176	3.671	19905	31	12.090	5.370	19977	13	7.646	7.770	20049	22	20.801	8.149	20121*	33	5.836	10.395
19834	32	23.049	3.212	19906	14	13.155	5.697	19978	33	7.906	7.006	20050	25	20.914	8.360	20122	11	5.925	10.894
19835	14	23.395	3.672	19907	17	13.278	5.522	19979	22	8.225	7.902	20051	20	21.066	8.234	20123	13	6.170	10.550
19836	17	24.269	3.065	19908	30	13.740	5.176	19980	20	8.410	7.515	20052	31	21.130	8.568	20124	11	6.895	10.479
19837	12	24.397	3.345	19909	11	14.255	5.845	19981*	51	9.335	7.976	20053	11	21.203	8.109	20125	12	7.145	10.488
19838	25	24.607	3.759	19910	38	14.340	5.229	19982	14	9.935	7.956	20054	10	21.210	8.340	20126	14	7.880	10.312
19839	33	25.426	3.340	19911	11														



20136	12	12 525	10.812	20208	10	3 785	12.805	20280	20	9 466	13.794	20352	12	11 844	14.168	20424	25	12.299	16.346
20137	20	13.511	10.289	20209	20	3.854	12.464	20281	24	9 895	13.342	20353	24	12.104	14.912	20425*	60	12.624	16.005
20138	12	13.944	10.154	20210	12	3.900	12.936	20282	13	10 014	13.821	20354	23	12.870	14.767	20426	14	12.856	16.304
20139	18	13.984	10.214	20211	11	4.064	12.517	20283	17	10.372	13.655	20355	20	13.314	14.739	20427	21	12.930	16.834
20140	12	14.770	10.315	20212	12	4.076	12.574	20284	10	10.454	13.246	20356	12	13.911	14.664	20428	31	13.007	16.313
20141	22	15.704	10.625	20213	11	4.374	12.751	20285	25	10.561	13.726	20357	12	14.238	14.256	20429	12	13.130	16.206
20142	20	15.790	10.167	20214	14	4.874	12.886	20286	14	10.950	13.154	20358	12	14.450	14.248	20430	22	13.390	16.420
20143	25	16.015	10.370	20215	20	5.134	12.995	20287	24	10.967	13.324	20359	22	14.556	14.506	20431	22	14.516	16.555
20144	10	16.256	10.426	20216	12	6.288	12.595	20288	28	11.487	13.116	20360	12	15.110	14.174	20432	16	14.643	16.880
20145	32	16.730	10.086	20217	14	6.296	12.738	20289	17	11.598	13.321	20361	11	16.095	14.901	20433*	60	15.030	16.135
20146	20	16.784	10.854	20218	12	6.760	12.031	20290	18	11.798	13.686	20362	12	16.195	14.744	20434	14	15.122	16.828
20147	15	17.189	10.202	20219	14	6.777	12.572	20291*	60	12.598	13.982	20363	39	16.496	14.210	20435	19	15.482	16.565
20148	11	18.214	10.808	20220	15	7.286	12.313	20292	15	12.620	13.105	20364	19	17.318	14.659	20436	12	15.654	16.445
20149*	40	18.285	10.944	20221	15	7.825	12.890	20293	24	12.885	13.245	20365	20	18.719	14.556	20437	26	16.192	16.965
20150	18	18.594	10.502	20222	34	8.136	12.090	20294	11	13.226	13.057	20366	14	18.771	14.876	20438	18	16.464	16.150
20151	26	19.036	10.534	20223*	39	8.155	12.110	20295	24	13.481	13.665	20367	15	19.810	14.535	20439	20	16.593	16.205
20152	14	19.265	10.429	20224	12	8.220	12.077	20296	17	14.034	13.794	20368	13	20.024	14.454	20440	29	17.141	16.298
20153	14	20.274	10.432	20225	16	8.643	12.835	20297	12	14.039	13.164	20369	12	20.270	14.545	20441	14	17.911	16.355
20154	25	20.356	10.796	20226	20	10.100	12.593	20298	38	14.117	13.272	20370	12	21.944	14.630	20442	20	17.956	16.518
20155	12	21.439	10.613	20227	14	10.234	12.314	20299	11	15.064	13.110	20371	24	22.352	14.284	20443	25	18.016	16.016
20156	24	21.634	10.406	20228	22	10.728	12.954	20300	16	15.300	13.918	20372*	48	23.325	14.805	20444	25	18.686	16.141
20157	14	21.675	10.290	20229	40	10.770	12.355	20301	20	15.826	13.285	20373	13	24.782	14.042	20445	12	18.909	16.670
20158	38	21.758	10.626	20230	13	11.035	12.894	20302	12	16.286	13.994	20374	30	0.812	15.088	20446*	46	19.555	16.225
20159	13	22.966	10.754	20231	21	11.538	12.505	20303	18	16.585	13.108	20375	13	2.532	15.134	20447	15	20.120	16.074
20160	12	23.436	10.905	20232	10	11.719	12.974	20304	25	16.872	13.024	20376	13	4.246	15.735	20448	28	20.246	16.445
20161*	40	24.895	10.551	20233	22	11.798	12.835	20305	27	16.889	13.686	20377	15	4.316	15.154	20449	15	20.280	16.865
20162	13	0.058	11.180	20234	12	11.808	12.966	20306	15	18.145	13.175	20378	16	5.824	15.174	20450	14	20.895	16.910
20163	14	1.653	11.628	20235	14	11.911	12.026	20307	19	19.031	13.915	20379	12	6.141	15.865	20451	14	21.235	16.096
20164	12	2.406	11.465	20236	14	12.172	12.662	20308	14	19.518	13.334	20380	13	6.332	15.666	20452	12	21.626	16.526
20165	20	4.195	11.897	20237	15	12.580	12.050	20309	16	20.105	13.986	20381*	44	6.470	15.180	20453	25	21.772	16.913
20166	15	5.366	11.674	20238	12	12.747	12.894	20310	11	21.182	13.169	20382	24	6.550	15.073	20454	12	21.784	16.818
20167	29	5.581	11.875	20239	22	12.912	12.954	20311	14	21.265	13.920	20383	10	8.280	15.654	20455	12	22.016	16.624
20168	13	5.602	11.311	20240	24	13.200	12.456	20312	35	21.315	13.725	20384	12	9.486	15.755	20456	26	22.554	16.366
20169	11	7.493	11.082	20241	13	14.354	12.632	20313	26	22.135	13.722	20385	12	11.945	15.474	20457	12	22.586	16.555
20170	12	7.605	11.514	20242	12	14.755	12.315	20314	12	22.198	13.381	20386	24	12.032	15.428	20458	25	23.138	16.245
20171	31	9.145	11.125	20243	26	15.018	12.110	20315	15	22.535	13.225	20387	16	13.071	15.778	20459	12	23.425	16.535
20172	20	9.245	11.456	20244	20	15.294	12.896	20316	14	22.708	13.375	20388	14	13.498	15.085	20460	38	24.055	16.598
20173	18	9.448	11.475	20245	12	15.450	12.088	20317	15	22.772	13.514	20389	12	14.440	15.182	20461	17	0.702	17.422
20174	36	10.750	11.855	20246	15	16.156	12.775	20318	11	23.024	13.135	20390	14	14.686	15.899	20462	14	2.854	17.510
20175	23	11.446	11.880	20247	26	17.460	12.364	20319*	48	23.544	13.817	20391	12	15.844	15.075	20463	16	3.006	17.695
20176	14	12.200	11.785	20248	16	17.624	12.815	20320	12	23.797	13.166	20392	15	15.960	15.099	20464	36	3.277	17.845
20177	16	12.735	11.500	20249	20	17.776	12.710	20321	13	24.690	13.135	20393	16	16.529	15.248	20465	24	4.004	17.836
20178	15	12.810	11.100	20250	21	19.270	12.820	20322	37	25.821	13.928	20394	24	18.276	15.975	20466	13	4.771	17.670
20179	15	12.996	11.194	20251	12	19.582	12.401	20323	13	0.737	14.074	20395	13	18.824	15.586	20467	14	4.830	17.185
20180	13	13.186	11.802	20252	12	20.495	12.794	20324	33	0.816	14.195	20396	18	19.046	15.957	20468	13	4.869	17.671
20181	17	13.466	11.744	20253	25	20.750	12.415	20325	30	0.846	14.402	20397*	40	19.296	15.794	20469	18	5.486	17.691
20182	13	13.686	11.703	20254	12	21.132	12.676	20326	40	1.474	14.199	20398	15	19.579	15.075	20470	11	5.496	17.924
20183	15	14.111	11.454	20255	12	21.424	12.804	20327	10	2.210	14.446	20399	17	19.798	15.714	20471	18	5.680	17.670
20184*	47	14.508	11.484	20256	13	21.529	12.696	20328	27	2.224	14.102	20400	12	20.085	15.374	20472	20	6.094	17.364
20185	12	15.465	11.926	20257	12	22.060	12.310	20329	24	2.716	14.355	20401	12	20.155	15.822	20473	12	6.465	17.326
20186	16	15.835	11.551	20258	12	22.954	12.070	20330	33	3.030	14.984	20402	17	22.134	15.071	20474	12	8.270	17.588
20187	18	16.774	11.255	20259	29	23.718	12.315	20331	12	3.384	14.754	20403	15	24.460	15.256	20475	12	8.869	17.455
20188	16	16.805	11.835	20260	12	24.230	12.217	20332	14	3.646	14.500	20404	10	25.445	15.375	20476	14	9.445	17.664
20189	26	16.888	11.034	20261	23	24.315	12.553	20333	20	3.954	14.896	20405	14	25.519	15.206	20477	12	9.600	17.615
20190	12	16.952	11.676	20262	29	25.268	12.626	20334*	42	4.437	14.511	20406	12	0.491	16.167	20478	12	10.739	17.664
20191	14	17.322	11.393	20263	13	0.325	13.495	20335	20	4.990	14.234	20407	14	3.542	16.800	20479	24	10.788	17.326
20192	26	18.150	11.546	20264	18	0.643	13.931	20336	20	5.558	14.934	20408	12	4.873	16.550	20480	20	10.807	17.575
20193	13	18.620	11.160	20265	12	1.712	13.916	20337	18	5.585	14.318	20409	20	6.055	16.205	20481	18	12.070	17.525
20194	13	19.887	11.116	20266	11	2.362	13.573	20338	14	5.642	14.981	20410	12	6.238	16.876	20482	13	12.242	17.166
20195	12	20.585	11.430	20267	12	2.826	13.454	20339	12	6.235	14.358	20411	19	6.808	16.920	20483	22	12.444	17.130
20196	13	20.590	11.516	20268	24	3.410	13.605	20340	16	6.822	14.722	20412	20	6.855	16.428	20484	14	13.050	17.780
20197	20	20.766	11.434	20269	12	3.621	13.446	20341	12	8.250	14.498	2041							



20496	14	17.522	17.546	20568	12	10.770	19.792	20640	17	19.660	20.144	20712	13	17.046	22.394	20784	11	6.617	24.318
20497*	34	17.810	17.224	20569	32	11.244	19.465	20641	13	20.414	20.592	20713	19	17.245	22.246	20785	39	7.237	24.410
20498	16	18.046	17.734	20570	31	11.413	19.052	20642	14	23.720	20.880	20714	19	17.375	22.611	20786	13	7.957	24.800
20499	22	18.448	17.414	20571	12	11.915	19.571	20643	25	0.018	21.393	20715	16	17.558	22.964	20787	26	9.510	24.095
20500	13	19.610	17.362	20572*	56	12.094	19.974	20644	14	2.578	21.585	20716	12	17.600	22.025	20788	11	9.569	24.932
20501*	54	19.664	17.341	20573	20	12.636	19.065	20645	15	3.466	21.059	20717	18	18.310	22.494	20789	15	10.365	24.964
20502	12	19.895	17.673	20574	39	13.358	19.747	20646	13	3.746	21.315	20718	14	18.352	22.005	20790	13	10.842	24.311
20503	30	20.478	17.528	20575	12	13.928	19.716	20647	14	4.618	21.599	20719	37	18.395	22.216	20791	22	10.852	24.932
20504	12	21.782	17.178	20576	34	14.460	19.356	20648	18	5.294	21.261	20720*	63	19.143	22.744	20792	15	11.860	24.386
20505	26	21.920	17.580	20577	12	15.066	19.408	20649	10	5.444	21.427	20721*	55	19.334	22.080	20793	40	14.299	24.065
20506	14	22.018	17.406	20578	13	15.066	19.850	20650	35	6.445	21.754	20722	15	19.480	22.260	20794	12	15.153	24.537
20507	12	22.714	17.154	20579	12	15.796	19.785	20651	14	6.544	21.264	20723	14	20.071	22.820	20795	37	17.475	24.434
20508	15	24.065	17.815	20580	17	15.818	19.400	20652	28	7.744	21.545	20724	12	20.826	22.972	20796	48	18.219	24.501
20509	15	24.134	17.198	20581	11	15.899	19.884	20653	12	8.414	21.247	20725	20	21.184	22.340	20797	12	18.574	24.761
20510	12	24.654	17.702	20582	12	16.366	19.301	20654	13	9.775	21.757	20726	36	21.560	22.240	20798	16	18.682	24.578
20511*	90	0.116	18.167	20583	12	16.424	19.695	20655	16	10.351	21.966	20727	12	22.363	22.182	20799	30	18.720	24.030
20512	20	0.257	18.776	20584	32	16.752	19.656	20656*	49	11.046	21.696	20728	16	22.477	22.375	20800	27	18.800	24.822
20513	12	3.120	18.571	20585	12	16.845	19.652	20657	15	11.157	21.478	20729	12	23.532	22.547	20801*	56	19.250	24.091
20514	12	4.396	18.830	20586	17	18.482	19.465	20658	11	11.705	21.718	20730	12	23.550	22.879	20802	28	19.850	24.634
20515	29	4.408	18.600	20587	11	18.802	19.218	20659	24	12.167	21.834	20731*	60	24.112	22.508	20803	25	20.418	24.590
20516	12	5.966	18.312	20588	13	19.705	19.191	20660	20	12.797	21.264	20732	12	24.380	22.139	20804	54	20.868	24.292
20517	12	6.432	18.055	20589*	38	20.055	19.775	20661	13	14.188	21.355	20733	13	24.622	22.614	20805*	58	20.893	24.975
20518	20	7.770	18.344	20590	19	20.119	19.275	20662	32	14.329	21.838	20734	16	24.744	22.686	20806	12	21.138	24.852
20519	14	8.906	18.178	20591*	39	20.616	19.043	20663	11	16.245	21.599	20735	26	25.134	22.475	20807	13	22.900	24.231
20520	13	9.797	18.195	20592	16	20.921	19.872	20664	13	16.254	21.975	20736	12	0.692	23.409	20808	22	25.531	24.871
20521	12	10.156	18.675	20593*	40	21.306	19.726	20665	14	16.655	21.876	20737	32	2.055	23.790	20809	19	0.378	25.624
20522	16	10.676	18.606	20594	18	21.355	19.779	20666*	34	16.976	21.980	20738	20	3.470	23.875	20810	16	0.663	25.314
20523	12	10.882	18.116	20595	34	21.376	19.932	20667	22	17.126	21.752	20739	25	4.606	23.496	20811	52	0.795	25.723
20524*	31	11.464	18.416	20596	31	22.167	19.926	20668	12	18.160	21.564	20740	11	5.756	23.278	20812	38	1.437	25.616
20525	16	13.604	18.706	20597	14	23.192	19.780	20669	26	18.680	21.310	20741	16	6.379	23.492	20813	27	2.296	25.686
20526	18	13.930	18.422	20598	12	23.684	19.666	20670	20	19.725	21.670	20742	12	7.767	23.473	20814	15	2.654	25.698
20527	12	14.140	18.595	20599	13	24.585	19.758	20671	12	20.600	21.630	20743*	57	8.462	23.004	20815	12	2.970	25.155
20528	11	14.293	18.184	20600	15	25.102	19.901	20672	17	21.551	21.551	20744	13	9.321	23.955	20816	13	3.205	25.865
20529*	40	14.936	18.036	20601	42	1.292	20.523	20673	12	22.040	21.759	20745	10	9.502	23.340	20817	13	3.435	25.214
20530	15	15.772	18.376	20602	10	1.446	20.142	20674	12	23.360	21.803	20746	20	10.082	23.144	20818	16	3.512	25.756
20531	17	16.720	18.280	20603	30	1.500	20.965	20675	12	25.989	21.699	20747	15	10.394	23.613	20819	26	4.351	25.522
20532	18	16.818	18.570	20604	18	2.064	20.583	20676	18	0.035	22.134	20748	14	12.425	23.789	20820	25	5.045	25.520
20533	11	17.224	18.875	20605	12	2.425	20.945	20677	12	0.108	22.444	20749	17	12.815	23.846	20821	13	6.391	25.740
20534	14	17.997	18.714	20606	17	3.178	20.872	20678	12	0.854	22.386	20750	42	12.904	23.155	20822	12	7.854	25.322
20535	22	19.452	18.610	20607	10	3.936	20.435	20679	27	1.004	22.619	20751	17	13.796	23.875	20823	20	8.672	25.061
20536	12	20.134	18.215	20608	33	6.485	20.754	20680	12	1.204	22.946	20752	43	14.865	23.566	20824	12	9.390	25.584
20537	13	20.856	18.178	20609	14	6.714	20.356	20681	17	1.962	22.850	20753	18	15.460	23.276	20825	12	9.762	25.395
20538	16	21.399	18.742	20610	13	6.750	20.188	20682	12	2.560	22.796	20754	20	15.550	23.566	20826	11	11.211	25.418
20539	19	21.787	18.112	20611	12	7.041	20.772	20683	14	2.560	22.057	20755	12	15.854	23.026	20827	11	11.446	25.192
20540	12	22.117	18.178	20612	14	7.124	20.498	20684*	62	4.090	22.370	20756	14	16.546	23.160	20828	13	12.455	25.228
20541	10	22.204	18.520	20613	12	7.217	20.075	20685	20	4.355	22.648	20757	12	17.066	23.742	20829	13	12.514	25.242
20542	20	23.671	18.075	20614	13	7.584	20.411	20686	32	4.996	22.497	20758	28	17.175	23.385	20830	12	12.922	25.855
20543	13	23.715	18.889	20615	44	7.694	20.638	20687	12	5.160	22.520	20759	12	17.586	23.303	20831	18	13.210	25.569
20544	17	23.826	18.360	20616	13	7.930	20.201	20688	15	5.414	22.087	20760	15	18.784	23.755	20832	21	15.714	25.842
20545	10	24.750	18.549	20617	20	8.160	20.283	20689	21	5.592	22.505	20761	12	19.085	23.368	20833	40	15.993	25.166
20546	19	25.532	18.127	20618	11	8.230	20.866	20690	14	6.080	22.477	20762	18	19.151	23.790	20834	13	16.308	25.115
20547	13	0.489	19.481	20619	14	8.439	20.048	20691	24	6.515	22.494	20763	11	19.448	23.304	20835	35	17.196	25.175
20548	30	2.676	19.462	20620	15	8.575	20.160	20692	30	6.656	22.398	20764	20	20.058	23.020	20836	24	17.545	25.913
20549	37	2.931	19.015	20621	15	9.083	20.039	20693	15	6.764	22.816	20765	24	20.955	23.608	20837	45	17.619	25.800
20550	13	3.788	19.056	20622	20	9.835	20.696	20694	14	7.295	22.234	20766	14	21.068	23.195	20838	11	18.150	25.073
20551	18	4.886	19.535	20623	25	10.848	20.345	20695	39	7.756	22.506	20767	36	22.270	23.366	20839	33	19.006	25.244
20552	22	5.098	19.078	20624	12	10.898	20.588	20696	13	7.954	22.345	20768	11	22.500	23.028	20840	45	19.382	25.166
20553	24	5.104	19.683	20625	33	11.974	20.655	20697	20	8.436	22.880	20769	14	23.289	23.190	20841	17	20.785	25.930
20554	32	5.270	19.684	20626	24	13.274	20.178	20698	11	9.714	22.217	20770	28	23.430	23.490	20842	17	21.600	25.466
20555	12	6.191	19.634	20627	17	13.665	20.395	20699	12	10.046	22.324	20771	18	23.617	23.442	20843*	49	22.942	25.262
20556	28	6.935	19.485	20628	15	14.314	20.254	20700	12	10.448	22.122	20772	11	24.074	23.216				
20557	22	7.274	19.406	20629	17	15.505	20.234	20701	14	10.665	22.099	20773	28	24.995	23.428				



R.A. 7 <sup>h</sup> 8 <sup>m</sup>				20906	37	23.225	0.578	20978	18	1.035	2.880	21.50	44	3.330	3.344	21122	14	6.570	4.042
Plate 1555; 1920 Feb. 12.				20907	22	23.438	0.946	20979	48	2.510	2.427	21051	33	3.382	3.555	21123	15	7.756	4.550
				20908	11	23.630	0.124	20980	29	3.140	2.866	21052	11	3.805	3.470	21124	12	8.778	4.618
				20909	14	24.600	0.858	20981	16	3.992	2.020	21053	32	5.954	3.800	21125	11	8.803	4.220
				20910	15	24.733	0.239	20982	20	5.020	2.842	21054	38	6.004	3.682	21126	18	9.646	4.152
				20911	28	24.740	0.275	20983	12	5.298	2.671	21055	23	6.356	3.069	21127	10	10.050	4.043
Provisional Constants.				20912	20	0.391	1.124	20984	14	5.377	2.818	21056	25	6.616	3.072	21128	18	10.522	4.787
A B C				20913	29	0.776	1.062	20985	17	5.497	2.783	21057	28	7.120	3.466	21129	15	10.700	4.588
—01734 +01506 —0466				20914	10	2.772	1.200	20986	27	5.886	2.566	21058	10	7.255	3.174	21130	18	10.889	4.810
D E F				20915	12	2.842	1.920	20987	33	5.931	2.706	21059	12	7.846	3.093	21131	17	11.412	4.533
—01509 —01724 —1382				20916*	58	3.426	1.256	20988	14	6.606	2.030	21060	12	8.492	3.608	21132	31	12.385	4.270
Mag.=16.8—1.05√d				20917	16	3.426	1.783	20989	15	7.540	2.035	21061	10	8.840	3.838	21133	18	12.772	4.634
				20918	15	3.554	1.788	20990*	72	7.678	2.050	21062	10	8.921	3.130	21134	29	12.803	4.210
				20919	17	3.780	1.691	20991	21	8.773	2.900	21063	13	9.720	3.538	21135	12	13.454	4.682
				20920	25	3.948	1.114	20992	51	8.790	2.756	21064	14	10.260	3.746	21136	25	13.790	4.280
				20921	29	3.994	1.936	20993	26	8.796	2.344	21065	12	10.726	3.032	21137	14	16.459	4.890
				20922	11	4.580	1.784	20994*	55	9.260	2.158	21066	18	11.640	3.652	21138	12	16.887	4.921
No.	d	x	y	20923	21	4.614	1.837	20995	13	9.365	2.300	21067	20	11.682	3.701	21139	21	17.210	4.022
20851	11	0.192	0.369	20924	28	4.951	1.219	20996	14	9.710	2.926	21068	16	11.690	3.984	21140*	45	17.271	4.862
20852	27	0.850	0.075	20925	55	4.960	1.180	20997	40	9.930	2.006	21069	35	11.750	3.313	21141	20	18.154	4.368
20853	12	1.208	0.853	20926	11	6.254	1.384	20998	23	10.195	2.928	21070	28	11.886	3.660	21142	14	18.480	4.553
20854	35	1.730	0.760	20927	20	6.415	1.322	20999	28	10.343	2.280	21071	28	12.004	3.936	21143	26	18.589	4.138
20855	33	1.790	0.085	20928	14	6.528	1.130	21000	25	10.350	2.996	21072*	54	12.091	3.464	21144	12	18.621	4.600
20856	34	2.334	0.866	20929	29	7.192	1.152	21001	13	10.374	2.276	21073	28	12.520	3.152	21145	14	18.678	4.142
20857	34	2.370	0.881	20930	28	7.810	1.469	21002	27	11.590	2.891	21074	38	12.677	3.128	21146	27	19.060	4.332
20858	11	3.310	0.670	20931	10	9.110	1.280	21003	15	12.271	2.024	21075	17	12.964	3.952	21147	16	19.212	4.668
20859	28	3.389	0.302	20932	33	9.363	1.933	21004	46	13.132	2.518	21076	47	12.970	3.448	21148	17	20.054	4.564
20860	18	4.984	0.746	20933	16	9.777	1.570	21005	40	13.144	2.698	21077	23	13.286	3.836	21149	11	21.356	4.782
20861	10	5.200	0.310	20934	38	9.953	1.876	21006	32	13.668	2.356	21078	17	13.606	3.266	21150	32	22.126	4.527
20862	47	5.814	0.498	20935	28	10.190	1.859	21007	28	14.004	2.979	21079	35	14.243	3.354	21151	44	22.567	4.612
20863	24	5.940	0.354	20936*	51	10.610	1.262	21008	13	14.540	2.730	21080	21	15.640	3.676	21152	12	23.892	4.608
20864	17	5.954	0.354	20937	15	11.124	1.298	21009	35	14.720	2.516	21081	13	15.652	3.288	21153	13	24.510	4.580
20865	14	6.160	0.344	20938	50	11.604	1.220	21010	39	15.273	2.455	21082	25	15.799	3.860	21154	37	24.610	4.522
20866	11	6.286	0.884	20939	20	11.660	1.789	21011	12	15.374	2.257	21083	20	16.036	3.864	21155	21	24.680	4.974
20867	26	6.720	0.946	20940	20	11.938	1.270	21012	44	15.545	2.516	21084	11	16.186	3.296	21156	27	24.999	4.804
20868	31	7.810	0.242	20941	28	12.100	1.760	21013	22	15.631	2.122	21085	13	16.460	3.320	21157	10	25.417	4.781
20869	21	8.929	0.857	20942	16	12.524	1.840	21014	39	15.994	2.574	21086	20	16.513	3.645	21158	24	25.483	4.524
20870	21	9.380	0.596	20943	12	13.102	1.008	21015	34	16.203	2.674	21087	35	16.560	3.917	21159	15	25.557	4.780
20871	22	9.636	0.119	20944	22	13.244	1.333	21016	23	16.260	2.893	21088	11	16.676	3.848	21160	15	0.016	5.828
20872	27	9.730	0.933	20945	24	13.396	1.096	21017	14	16.428	2.764	21089	49	16.764	3.849	21161	14	0.920	5.119
20873*	53	10.127	0.878	20946	16	13.929	1.174	21018	38	17.158	2.482	21090	44	16.880	3.706	21162	26	0.922	5.590
20874	13	10.690	0.452	20947	32	14.004	1.380	21019	44	17.213	2.998	21091	15	17.172	3.082	21163	23	1.060	5.106
20875	27	10.888	0.478	20948	18	14.145	1.668	21020	28	17.338	2.138	21092	15	19.636	3.564	21164	46	1.170	5.450
20876	25	10.974	0.188	20949*	52	15.387	1.354	21021	10	17.410	2.040	21093	18	19.651	3.769	21165	15	1.273	5.225
20877	14	11.296	0.034	20950	27	15.427	1.970	21022	24	17.751	2.518	21094	49	19.675	3.782	21166	18	1.562	5.003
20878	45	11.656	0.666	20951	19	15.624	1.250	21023	43	18.050	2.314	21095	24	19.915	3.430	21167	17	2.750	5.160
20879*	56	11.670	0.868	20952	25	15.787	1.456	21024	19	18.378	2.946	21096	31	20.007	3.850	21168	10	2.838	5.294
20880	10	11.717	0.424	20953	16	16.660	1.737	21025	15	19.251	2.536	21097	24	20.355	3.766	21169	19	3.010	5.921
20881	27	11.754	0.515	20954	22	16.700	1.180	21026	27	19.848	2.574	21098	17	20.740	3.596	21170	10	3.592	5.348
20882	10	11.848	0.650	20955	12	17.170	1.120	21027	25	20.100	2.731	21099	21	22.472	3.638	21171	28	4.357	5.794
20883	13	12.306	0.003	20956	43	18.543	1.483	21028	16	20.130	2.708	21100	16	23.414	3.028	21172	23	4.483	5.190
20884	23	12.918	0.460	20957	12	19.561	1.610	21029	54	20.735	2.656	21101	28	23.550	3.195	21173	15	4.622	5.993
20885	34	13.476	0.828	20958	26	19.844	1.428	21030	21	21.322	2.478	21102*	52	23.620	3.228	21174	17	4.716	5.635
20886	44	13.491	0.529	20959	19	19.940	1.860	21031	50	22.530	2.608	21103	29	23.783	3.432	21175	10	5.338	5.709
20887	30	13.494	0.424	20960	19	20.550	1.280	21032	15	22.708	2.552	21104	22	24.438	3.076	21176	30	5.554	5.238
20888	12	14.350	0.119	20961	21	20.774	1.356	21033	29	22.751	2.953	21105	29	0.400	4.513	21177	10	5.935	5.014
20889	11	14.876	0.180	20962	17	20.858	1.666	21034	51	22.944	2.697	21106	14	0.582	4.285	21178	16	6.398	5.466
20890	15	15.480	0.106	20963	25	21.076	1.080	21035	10	22.950	2.246	21107	15	0.598	4.117	21179	41	6.587	5.412
20891	28	16.652	0.000	20964	34	22.206	1.198	21036	14	23.720	2.668	21108	15	1.398	4.271	21180	18	6.860	5.516
20892	11	16.850	0.837	20965	17	22.550	1.620	21037	14	23.803	2.434	21109	11	1.432	4.516	21181	15	6.945	5.142
20893	30	17.030	0.164	20966	14	22.673	1.686	21038	25	24.616	2.990	21110	15	1.574	4.796	21182	18	7.577	5.824
20894	21	18.060	0.325	20967	18	22.900	1.190	21039	33	0.090	3.756	21111	11	2.916	4.186	21183	12	8.054	5.956
20895	11	18.060	0.215	20968	17	23.470	1.139	21040	13	0.160	3.283	21112	11	2.950	4.174	21184	25	8.786	5.916
20896	40	18.201	0.942	20969	45	23.655	1.036	21041	13	0.858	3.774	21113	10	3.218	4.337	21185	24	9.014	5.648
20897	30	18.280	0.730	20970	11	24.116	1.564	21042	42	0.950	3.272	21114	44	3.354	4.802	21186	15	9.056	5.360
20898	37	19.454	0.836	20971	14	24.450	1.864	21043	12	1.109	3.830	21115	18	3.707	4.183	21187	23	9.140	5.548
20899	10	20.404	0.400	20972	45	24.505	1.204	21044	26	1.310	3.724	21116	27	3.771	4.388	21188	12	9.3	



21194	17	14.005	5.537	21266	15	12.140	6.816	21338	15	22.805	7.022	21410	14	20.784	8.990	21482	16	24.214	9.352
21195	13	14.248	5.850	21267	38	12.206	6.361	21339	20	23.444	7.964	21411	19	21.204	8.223	21483	11	24.342	9.047
21196	11	14.446	5.754	21268	25	12.278	6.188	21340	25	24.430	7.523	21412	35	21.316	8.685	21484	29	24.942	9.957
21197	10	14.670	5.915	21269*	50	13.260	6.298	21341	25	24.480	7.733	21413	11	21.630	8.646	21485*	35	24.994	9.682
21198	12	14.891	5.048	21270	17	13.300	6.848	21342	29	24.572	7.903	21414	35	22.082	8.635	21486	10	0.940	10.695
21199	11	15.096	5.326	21271	10	14.666	6.404	21343	24	24.575	7.277	21415	10	22.287	8.276	21487	15	1.052	10.820
21200*	63	15.126	5.478	21272	18	14.677	6.486	21344	11	24.720	7.766	21416	12	22.475	8.147	21488	21	1.527	10.957
21201	22	15.633	5.866	21273	13	14.744	6.676	21345	29	25.680	7.365	21417	24	22.652	8.070	21489	12	2.540	10.113
21202	33	16.038	5.670	21274	11	14.744	6.684	21346	26	25.905	7.638	21418	26	22.872	8.694	21490	12	2.758	10.636
21203	26	16.049	5.504	21275	19	15.291	6.316	21347	16	25.917	7.972	21419	28	23.074	8.794	21491*	44	2.966	10.368
21204	28	16.245	5.100	21276	10	17.736	6.572	21348	17	0.466	8.227	21420	10	23.572	8.485	21492	22	3.108	10.923
21205	10	16.306	5.083	21277	14	18.862	6.504	21349	14	0.612	8.702	21421	12	23.669	8.075	21493	25	4.430	10.180
21206	21	16.396	5.238	21278	12	18.900	6.669	21350	12	0.942	8.031	21422	17	24.060	8.684	21494	27	4.450	10.410
21207	43	16.482	5.641	21279	10	19.526	6.595	21351	13	0.966	8.949	21423	13	24.544	8.183	21495	10	4.930	10.928
21208	16	16.916	5.125	21280	29	19.736	6.214	21352	27	2.226	8.050	21424	37	24.610	8.631	21496	19	5.094	10.145
21209	37	17.818	5.294	21281	13	20.277	6.842	21353	18	2.252	8.408	21425	28	25.054	8.731	21497	12	5.818	10.152
21210	15	17.954	5.760	21282	28	22.352	6.285	21354	27	2.866	8.144	21426	10	25.187	8.230	21498	22	5.865	10.090
21211	26	18.278	5.053	21283	31	22.956	6.988	21355	14	3.106	8.404	21427	12	25.238	8.754	21499	21	6.123	10.806
21212	28	18.516	5.140	21284	39	23.374	6.924	21356	19	3.860	8.652	21428	10	1.137	9.311	21500	18	8.170	10.614
21213	13	18.675	5.628	21285	15	24.594	6.249	21357*	59	4.643	8.884	21429	10	1.297	9.842	21501	21	9.762	10.197
21214	24	18.896	5.568	21286	26	24.819	6.243	21358	14	5.048	8.696	21430	19	1.957	9.074	21502	16	10.145	10.542
21215	22	19.250	5.306	21287	15	25.510	6.024	21359	16	5.076	8.332	21431*	60	1.983	9.116	21503	30	10.152	10.556
21216	12	19.560	5.394	21288	19	25.664	6.670	21360	10	5.236	8.562	21432	17	2.346	9.554	21504	16	10.218	10.256
21217	28	19.806	5.740	21289	15	25.738	6.241	21361	13	6.537	8.602	21433	13	3.650	9.416	21505	16	10.472	10.156
21218	39	20.120	5.826	21290	39	0.635	7.966	21362	33	6.708	8.206	21434	31	3.753	9.943	21506	22	11.172	10.628
21219	27	20.572	5.600	21291	43	1.438	7.816	21363	15	6.987	8.296	21435	19	3.791	9.964	21507	25	11.522	10.954
21220	12	21.646	5.701	21292	15	1.881	7.950	21364	27	7.215	8.077	21436	10	4.735	9.928	21508	13	11.996	10.032
21221	17	21.964	5.022	21293	11	1.927	7.036	21365	23	7.222	8.766	21437	17	4.910	9.564	21509	30	12.172	10.117
21222*	45	22.834	5.215	21294	26	2.078	7.036	21366	36	7.767	8.628	21438	30	5.070	9.934	21510	10	12.364	10.890
21223	14	23.630	5.162	21295	40	2.292	7.310	21367	16	8.390	8.426	21439	15	5.132	9.706	21511	17	12.514	10.794
21224	29	23.790	5.762	21296	23	2.806	7.006	21368	24	8.672	8.346	21440	28	5.193	9.232	21512	30	12.550	10.344
21225	31	23.804	5.766	21297	19	2.856	7.544	21369	19	8.770	8.590	21441	26	5.277	9.510	21513	20	12.726	10.216
21226	24	24.041	5.224	21298	16	3.560	7.960	21370	11	8.850	8.314	21442	11	6.445	9.421	21514	21	13.343	10.100
21227	26	24.224	5.065	21299	15	4.975	7.490	21371	28	8.994	8.858	21443	17	6.620	9.475	21515	14	14.270	10.924
21228	14	24.271	5.002	21300	22	4.992	7.144	21372	20	9.420	8.937	21444	10	6.660	9.472	21516	42	14.477	10.590
21229	25	24.328	5.605	21301	27	6.084	7.856	21373	27	9.422	8.849	21445	12	6.970	9.910	21517	20	15.110	10.278
21230	31	24.850	5.480	21302	23	6.753	7.894	21374	15	9.532	8.686	21446	14	7.177	9.322	21518	33	15.837	10.318
21231	11	25.032	5.082	21303	12	7.105	7.454	21375	35	10.376	8.024	21447	23	7.617	9.518	21519	19	15.860	10.632
21232	25	0.535	6.106	21304	16	7.144	7.794	21376	28	10.424	8.910	21448	12	7.800	9.278	21520	44	16.132	10.455
21233	11	0.752	6.225	21305	27	7.845	7.364	21377	13	11.764	8.649	21449	11	8.870	9.151	21521	19	16.280	10.702
21234	12	1.498	6.420	21306	12	8.562	7.721	21378	30	12.043	8.294	21450	28	9.726	9.282	21522	19	16.504	10.790
21235	20	2.238	6.946	21307	13	8.590	7.794	21379	45	12.608	8.796	21451*	130	11.158	9.136	21523	16	16.866	10.672
21236	28	3.170	6.924	21308	10	9.238	7.554	21380	24	13.732	8.714	21452	13	11.869	9.988	21524	15	18.367	10.216
21237	22	3.265	6.196	21309	15	9.566	7.761	21381	18	14.268	8.198	21453	12	12.200	9.056	21525	25	18.840	10.356
21238	24	3.934	6.181	21310	11	9.674	7.664	21382	14	14.790	8.382	21454	18	12.524	9.558	21526	48	19.030	10.472
21239	10	4.062	6.110	21311	13	10.370	7.684	21383	39	15.264	8.922	21455	22	12.602	9.509	21527*	71	19.762	10.598
21240	33	4.388	6.660	21312	26	12.554	7.534	21384	10	15.467	8.225	21456	15	13.082	9.751	21528	12	20.226	10.386
21241	12	5.220	6.466	21313	12	12.732	7.850	21385	10	15.798	8.563	21457	25	13.818	9.802	21529	15	20.430	10.365
21242*	42	5.788	6.568	21314	19	13.204	7.576	21386	27	16.740	8.134	21458	13	14.933	9.792	21530	31	20.434	10.496
21243	17	5.940	6.630	21315	17	13.673	7.211	21387	11	16.806	8.120	21459	21	15.673	9.894	21531	16	21.300	10.943
21244	20	6.126	6.774	21316	15	14.192	7.844	21388	11	16.863	8.983	21460	11	15.978	9.116	21532	11	22.456	10.936
21245*	51	6.190	6.944	21317	30	14.300	7.300	21389	10	17.205	8.440	21461	19	16.016	9.508	21533	14	22.910	10.100
21246	13	6.614	6.788	21318*	40	16.021	7.260	21390	13	17.220	8.586	21462	30	16.037	9.336	21534	10	23.181	10.494
21247	20	7.266	6.364	21319	25	16.152	7.692	21391	10	17.226	8.746	21463	10	16.322	9.040	21535	16	23.477	10.426
21248	10	7.311	6.606	21320	28	16.818	7.336	21392	16	17.240	8.159	21464	28	16.524	9.908	21536	11	23.942	10.390
21249	20	7.652	6.500	21321	27	17.120	7.437	21393	26	17.402	8.396	21465	10	16.925	9.650	21537	24	24.184	10.708
21250	27	7.720	6.324	21322	13	17.334	7.750	21394	22	17.597	8.760	21466	16	17.598	9.634	21538	26	24.588	10.084
21251	10	7.986	6.616	21323	10	18.110	7.376	21395	15	17.630	8.033	21467*	59	18.585	9.390	21539	12	24.704	10.129
21252	12	8.453	6.318	21324	11	18.710	7.904	21396	12	17.876	8.223	21468	10	18.759	9.830	21540	25	24.766	10.200
21253	28	9.231	6.382	21325	13	18.740	7.386	21397	13	17.946	8.772	21469	22	18.890	9.076	21541	12	25.054	10.802
21254	30	9.250	6.800	21326	24	18.784	7.370	21398	19	18.954	8.490	21470	10	19.803	9.957	21542	27	25.308	10.950
21255	25	9.798	6.290	21327	23	19.140	7.127	21399	22	18.974	8.194	21471	21	20.299	9.806	21543	10	25.598	10.920
21256	26	10.129	6.374	21328	14	19.176	7.463	21400	19	19.220	8.186	21472	19	20.318	9.508	21544	11	25.806	10.800



21554	28	4.784	11 323	21626	21	5.200	12 182	21698	11	3.278	13.215	21770	18	8.004	14.840	21842	12	6.072	15.592
21555	19	5.606	11 746	21627	14	5.570	12.865	21699	11	3.434	13.180	21771	10	8.323	14.784	21843	16	6.220	15.340
21556	23	5.663	11.970	21628	25	5.600	12.512	21700	40	3.983	13.020	21772	10	8.326	14.862	21844	22	6.250	15.175
21557	26	5.899	11.542	21629	14	5.633	12.451	21701	10	4.024	13.355	21773	17	8.381	14.430	21845	16	6.668	15.558
21558	17	5.920	11.160	21630	10	5.934	12.358	21702	12	4.058	13.268	21774	27	8.594	14.140	21846	18	6.681	15.554
21559	25	6.488	11.924	21631	18	5.942	12.294	21703	26	4.286	13.430	21775	23	8.610	14.092	21847	26	7.065	15.355
21560	20	6.523	11.923	21632	29	6.524	12.770	21704	10	4.446	13.198	21776	14	8.616	14.350	21848	31	7.320	15.182
21561	13	6.734	11.579	21633	34	7.130	12.352	21705	14	4.786	13.950	21777	25	9.326	14.564	21849	14	7.950	15.462
21562	23	7.114	11.940	21634	16	7.459	12.238	21706	10	4.940	13.476	21778	26	9.470	14.060	21850	18	7.982	15.296
21563	18	7.577	11.075	21635	10	7.578	12.734	21707	19	5.180	13.647	21779	10	10.156	14.207	21851	13	8.010	15.813
21564	25	7.610	11.734	21636	16	8.054	12.054	21708	12	5.254	13.450	21780	30	11.567	14.919	21852	26	8.076	15.817
21565	17	7.980	11.272	21637	12	8.388	12.934	21709	15	5.654	13.348	21781	31	11.894	14.979	21853	15	8.300	15.373
21566	16	8.260	11.208	21638	16	8.936	12.656	21710	14	7.790	13.244	21782	28	12.514	14.096	21854	17	8.334	15.173
21567	19	9.060	11.956	21639	16	9.078	12.284	21711	17	9.230	13.434	21783	30	12.750	14.082	21855	13	8.635	15.222
21568	28	9.060	11.949	21640	11	9.106	12.650	21712	28	9.272	13.112	21784	35	13.325	14.510	21856	19	9.316	15.910
21569	14	9.448	11.740	21641	10	9.296	12.494	21713	28	10.001	13.285	21785	24	14.139	14.102	21857	44	9.610	15.360
21570	17	9.580	11.620	21642	13	10.334	12.820	21714	26	10.098	13.243	21786	14	14.146	14.519	21858	13	9.790	15.324
21571	18	9.835	11.910	21643	12	10.746	12.864	21715	11	10.450	13.664	21787	12	14.328	14.477	21859	16	9.967	15.320
21572	16	10.810	11.200	21644	14	11.400	12.643	21716	10	10.456	13.684	21788	10	14.428	14.980	21860	26	10.174	15.048
21573	28	11.136	11.236	21645	28	11.626	12.627	21717	10	11.070	13.550	21789	16	14.474	14.104	21861	17	10.592	15.163
21574	25	11.358	11.408	21646	27	12.248	12.217	21718	13	12.220	13.457	21790	37	14.584	14.680	21862	15	10.676	15.714
21575	16	11.456	11.190	21647	25	12.284	12.743	21719	51	12.716	13.750	21791	10	14.806	14.639	21863	16	13.058	15.220
21576	13	11.588	11.714	21648	25	12.954	12.686	21720	26	12.956	13.372	21792	28	14.816	14.666	21864	17	13.185	15.744
21577	23	12.084	11.350	21649	18	14.006	12.614	21721	22	13.140	13.618	21793	13	15.067	14.266	21865	11	13.206	15.926
21578	15	12.234	11.080	21650	22	14.268	12.254	21722	21	13.773	13.165	21794	13	15.280	14.775	21866	14	14.469	15.106
21579	46	13.452	11.226	21651	14	14.566	12.916	21723	10	13.971	13.626	21795	12	15.500	14.276	21867	12	15.465	15.014
21580	24	14.104	11.196	21652	15	14.840	12.601	21724	26	14.745	13.236	21796	15	15.750	14.982	21868	29	15.875	15.668
21581	13	15.926	11.746	21653	18	15.166	12.116	21725	17	15.277	13.456	21797	14	15.768	14.532	21869	16	16.078	15.534
21582	58	16.138	11.884	21654	19	15.370	12.900	21726	15	16.556	13.194	21798	20	16.266	14.936	21870	62	16.860	15.766
21583	22	17.478	11.674	21655	26	15.894	12.353	21727	16	16.937	13.194	21799	17	16.375	14.400	21871	27	16.889	15.681
21584	16	18.000	11.455	21656	14	16.002	12.827	21728	15	17.364	13.830	21800	42	16.410	14.566	21872	29	17.013	15.366
21585	42	18.140	11.625	21657	47	17.264	12.073	21729	30	17.472	13.040	21801	40	16.430	14.556	21873	23	17.158	15.610
21586	29	18.462	11.344	21658	27	17.974	12.675	21730	13	17.940	13.170	21802	14	17.180	14.580	21874	20	17.572	15.822
21587	27	18.746	11.396	21659	16	18.200	12.164	21731	26	18.170	13.426	21803	22	17.440	14.016	21875	29	17.844	15.834
21588	47	18.757	11.598	21660	16	18.525	12.364	21732	26	18.229	13.590	21804	13	17.927	14.557	21876	17	17.948	15.644
21589	35	18.911	11.857	21661	45	19.022	12.058	21733	12	19.062	13.070	21805	41	19.470	14.106	21877	18	18.567	15.607
21590	21	18.956	11.773	21662	10	19.385	12.734	21734	14	19.178	13.770	21806	18	20.057	14.775	21878	16	19.306	15.426
21591	20	19.278	11.334	21663	16	19.484	12.144	21735	19	19.358	13.610	21807	12	20.688	14.572	21879	29	19.484	15.491
21592	45	19.432	11.214	21664	29	19.670	12.409	21736	17	19.403	13.270	21808	19	21.678	14.870	21880	11	19.924	15.816
21593	15	19.621	11.503	21665	11	19.922	12.744	21737	18	19.846	13.678	21809	13	21.802	14.204	21881	20	19.970	15.004
21594	19	19.665	11.750	21666	28	19.987	12.810	21738	10	20.580	13.444	21810	39	22.150	14.953	21882	26	20.530	15.017
21595	11	19.815	11.726	21667	11	20.354	12.740	21739	29	20.834	13.189	21811	21	22.572	14.880	21883	29	20.636	15.686
21596	23	20.114	11.440	21668	15	21.638	12.480	21740	22	21.167	13.286	21812	26	22.630	14.116	21884	10	21.202	15.758
21597	20	20.489	11.674	21669	26	22.690	12.047	21741	13	21.173	13.088	21813	23	22.800	14.467	21885	12	22.262	15.494
21598	27	20.558	11.800	21670	39	23.006	12.696	21742	27	21.322	13.078	21814	11	22.870	14.678	21886	16	22.936	15.675
21599	14	21.080	11.014	21671	25	23.062	12.532	21743	13	21.520	13.840	21815	22	23.671	14.857	21887	22	23.128	15.665
21600	16	21.332	11.708	21672	26	23.288	12.546	21744	14	21.697	13.884	21816	16	23.720	14.418	21888	18	23.308	15.849
21601	13	21.386	11.754	21673	34	23.719	12.378	21745	16	21.906	13.184	21817	14	23.870	14.720	21889	14	23.420	15.242
21602	14	21.540	11.706	21674	35	24.126	12.340	21746	29	22.114	13.069	21818	27	23.896	14.705	21890	32	24.437	15.349
21603	32	22.372	11.206	21675	18	24.174	12.236	21747	26	22.284	13.374	21819	16	23.950	14.662	21891	33	23.500	15.182
21604	20	22.435	11.352	21676	12	25.386	12.006	21748	20	22.656	13.298	21820	29	23.962	14.560	21892	42	23.902	15.200
21605	27	22.854	11.352	21677	41	25.602	12.946	21749	25	22.704	13.617	21821	28	24.203	14.660	21893	19	24.165	15.325
21606	27	23.908	11.996	21678	31	25.670	12.646	21750	54	23.002	13.620	21822	29	24.248	14.208	21894	28	25.290	15.507
21607	11	24.136	11.753	21679	14	25.768	12.060	21751	10	23.050	13.609	21823	14	24.372	14.880	21895	23	0.020	16.912
21608	29	25.210	11.822	21680	15	25.803	12.436	21752	13	23.124	13.625	21824	23	24.836	14.402	21896	15	0.249	16.713
21609	13	25.396	11.738	21681	27	25.985	12.220	21753	15	23.670	13.960	21825	18	25.354	14.993	21897	32	0.776	16.442
21610	10	25.880	11.282	21682	32	0.292	13.806	21754	14	23.803	13.164	21826	18	25.354	14.850	21898	10	0.817	16.629
21611	17	0.188	12.400	21683	17	0.350	13.465	21755	28	24.470	13.366	21827	13	25.564	14.453	21899	10	1.290	16.186
21612	15	1.074	12.136	21684	10	0.563	13.615	21756	16	0.129	14.717	21828	23	0.329	15.156	21900	30	1.358	16.305
21613	14	1.154	12.952	21685	21	0.683	13.300	21757	10	0.446	14.907	21829	27	2.657	15.285	21901	18	1.652	16.590
21614	13	1.618	12.325	21686	14	0.773	13.232	21758	30	0.526	14.362	21830	15	3.645	15.377	21902	11	1.694	16.740
21615	14	1.657	12.916	21687	17	0.862	13.444	21759	49	1.503	14.858	21831	27</						



21914	12	6.165	16.790	21986	17	6.410	17.732	22058	25	11.300	18.291	22130	24	14.204	19.988	22202	46	14.662	20.080
21915	13	6.550	16.863	21987	10	7.098	17.499	22059	19	11.367	18.192	22131	15	14.668	19.162	22203	19	14.688	20.850
21916	20	6.587	16.300	21988	18	7.334	17.553	22060	24	12.310	18.770	22132	42	15.372	19.212	22204	29	15.040	20.553
21917	10	6.830	16.780	21989	12	8.301	17.666	22061	16	12.767	18.363	22133	17	15.725	19.832	22205	26	15.593	20.957
21918	16	7.222	16.420	21990	10	8.385	17.736	22062	23	12.944	18.866	22134	28	16.396	19.700	22206	14	15.598	20.920
21919	18	7.264	16.886	21991	10	8.588	17.172	22063	14	12.969	18.413	22135	13	16.621	19.110	22207	13	16.460	20.418
21920	16	7.493	16.442	21992	12	8.823	17.858	22064	24	13.273	18.872	22136	15	16.944	19.752	22208	21	16.860	20.114
21921	30	7.877	16.084	21993	35	8.892	17.148	22065	16	13.922	18.406	22137	20	17.135	19.880	22209	27	17.632	20.273
21922	34	8.330	16.504	21994	18	9.217	17.800	22066	18	14.310	18.030	22138	10	17.214	19.317	22210	12	17.868	20.697
21923	11	8.492	16.650	21995	16	9.257	17.515	22067	14	14.790	18.975	22139	14	17.257	19.460	22211	28	18.046	20.787
21924	13	8.524	16.623	21996	16	9.496	17.105	22068	16	15.067	18.534	22140	28	17.536	19.383	22212	12	18.114	20.206
21925	13	8.552	16.613	21997	13	9.842	17.502	22069	12	15.210	18.351	22141	14	18.165	19.780	22213	19	18.632	20.757
21926	19	8.706	16.676	21998	14	9.896	17.031	22070	12	15.314	18.870	22142	23	18.562	19.860	22214	28	18.688	20.590
21927	13	8.905	16.170	21999	35	10.764	17.300	22071	18	15.375	18.350	22143	10	18.615	19.608	22215	15	18.900	20.026
21928	14	8.910	16.498	22000	15	10.988	17.518	22072	15	15.436	18.009	22144	28	18.761	19.376	22216	34	19.834	20.563
21929	16	9.255	16.625	22001	26	11.218	17.120	22073	19	15.544	18.214	22145	14	18.878	19.441	22217	18	20.186	20.814
21930	28	9.340	16.236	22002	25	11.751	17.186	22074	21	15.743	18.200	22146	22	18.920	19.940	22218	34	20.445	20.062
21931	12	9.794	16.965	22003	12	12.404	17.480	22075	33	15.858	18.498	22147	34	19.015	19.928	22219	45	20.474	20.816
21932	30	9.948	16.158	22004	26	14.294	17.347	22076*	46	16.022	18.782	22148	22	19.018	19.330	22220*	55	20.538	20.796
21933	44	10.540	16.616	22005	13	14.692	17.437	22077	29	17.520	18.358	22149	16	19.034	19.700	22221	10	20.643	20.014
21934	10	10.637	16.622	22006	10	14.940	17.245	22078	14	17.544	18.846	22150	29	19.236	19.262	22222	17	20.860	20.216
21935	12	10.698	16.791	22007	17	15.296	17.516	22079	17	17.646	18.113	22151	15	19.314	19.706	22223	13	21.622	20.630
21936	15	11.122	16.066	22008	12	15.356	17.750	22080	16	17.760	18.934	22152	22	19.356	19.781	22224	34	22.508	20.700
21937	12	12.465	16.250	22009	16	15.513	17.798	22081	37	17.954	18.071	22153	30	19.628	19.513	22225	30	22.668	20.840
21938	19	12.726	16.165	22010	13	15.736	17.685	22082	20	18.354	18.375	22154	27	19.680	19.466	22226	43	23.500	20.770
21939	14	12.768	16.015	22011	14	15.818	17.420	22083	11	18.865	18.956	22155	15	19.870	19.362	22227	14	24.540	20.062
21940	19	13.770	16.050	22012	27	16.150	17.746	22084	20	18.935	18.204	22156	14	20.328	19.986	22228	51	24.805	20.157
21941	23	14.238	16.178	22013	33	16.156	17.894	22085	18	19.770	18.134	22157	23	20.659	19.752	22229	26	25.063	20.870
21942	11	15.135	16.812	22014	18	17.999	17.006	22086	10	20.264	18.965	22158	43	21.139	19.960	22230	13	0.400	21.844
21943	10	15.442	16.190	22015	14	19.300	17.772	22087	30	20.834	18.757	22159	13	21.662	19.090	22231	25	1.724	21.856
21944	10	15.616	16.330	22016	12	19.678	17.175	22088	28	20.854	18.574	22160	28	22.046	19.465	22232	13	1.884	21.214
21945	18	15.782	16.320	22017	33	19.823	17.938	22089	19	21.168	18.810	22161	39	22.609	19.550	22233	17	2.992	21.826
21946	14	15.860	16.248	22018	33	20.063	17.593	22090	23	21.826	18.934	22162	28	22.710	19.942	22234	16	3.446	21.316
21947	19	15.877	16.099	22019	29	20.093	17.922	22091	22	23.276	18.528	22163	11	24.190	19.608	22235	29	4.348	21.690
21948	22	16.240	16.129	22020	13	21.180	17.824	22092	26	23.370	18.679	22164	27	24.628	19.166	22236	26	4.462	21.354
21949	17	16.950	16.076	22021	10	21.697	17.237	22093	21	24.206	18.650	22165	23	25.163	19.422	22237	33	4.471	21.836
21950	13	18.101	16.146	22022	10	21.935	17.204	22094	13	24.274	18.446	22166	27	25.301	19.910	22238	31	4.474	21.845
21951	11	18.130	16.730	22023	22	22.222	17.890	22095	13	25.600	18.670	22167	10	25.336	19.620	22239	10	4.474	21.324
21952	10	18.372	16.476	22024	11	22.499	17.488	22096	23	25.651	18.488	22168	15	25.480	19.490	22240	30	4.977	21.400
21953	32	18.518	16.192	22025	20	22.680	17.380	22097	14	25.754	18.721	22169	27	25.654	19.700	22241	15	5.170	21.933
21954	11	18.915	16.871	22026*	57	22.790	17.670	22098	18	25.810	18.869	22170	32	0.477	20.008	22242	11	6.155	21.076
21955	25	19.254	16.858	22027	18	23.162	17.400	22099	16	25.935	18.578	22171	26	2.060	20.925	22243	16	6.535	21.332
21956	18	19.910	16.986	22028	44	23.474	17.652	22100	24	1.502	19.836	22172	14	2.266	20.444	22244	18	6.590	21.695
21957	24	20.126	16.616	22029	31	24.298	17.394	22101	20	1.994	19.714	22173	13	2.866	20.236	22245	13	7.045	21.946
21958	25	20.535	16.220	22030	16	24.890	17.504	22102	26	2.894	19.783	22174	14	3.262	20.531	22246	14	7.674	21.256
21959	21	20.911	16.704	22031	31	25.816	17.602	22103	27	3.416	19.913	22175	25	4.428	20.524	22247	21	7.690	21.425
21960	29	21.856	16.043	22032	25	0.056	18.205	22104	18	3.677	19.637	22176	28	6.107	20.193	22248	18	7.790	21.275
21961	29	21.922	16.231	22033	15	0.390	18.263	22105	15	4.064	19.997	22177	10	6.260	20.169	22249	22	7.969	21.530
21962	13	22.130	16.975	22034	14	0.482	18.600	22106	34	4.902	19.824	22178	12	6.836	20.706	22250	27	8.804	21.965
21963	11	22.526	16.095	22035	29	1.936	18.124	22107	17	4.988	19.720	22179	22	6.928	20.924	22251	15	9.650	21.143
21964	25	23.316	16.125	22036	18	2.001	18.933	22108	29	5.610	19.994	22180	21	6.950	20.520	22252	15	9.830	21.588
21965	16	23.793	16.528	22037	26	2.100	18.404	22109	18	6.024	19.338	22181	18	7.149	20.180	22253	26	10.591	21.756
21966	29	24.246	16.082	22038	12	2.990	18.748	22110	28	6.486	19.244	22182	31	7.286	20.794	22254	18	10.706	21.135
21967	10	24.742	16.608	22039	16	3.029	18.572	22111	24	6.778	19.652	22183	10	8.300	20.902	22255	23	11.459	21.700
21968	37	25.445	16.122	22040	10	3.181	18.118	22112	18	7.721	19.294	22184	26	9.014	20.161	22256	15	11.660	21.260
21969	10	25.846	16.576	22041	28	3.800	18.127	22113	11	7.857	19.616	22185	23	9.120	20.422	22257	16	12.017	21.936
21970	24	25.937	16.948	22042*	36	4.702	18.914	22114	18	8.076	19.158	22186	12	9.471	20.285	22258	11	12.810	21.822
21971	28	0.009	17.005	22043	13	6.372	18.218	22115	12	8.788	19.180	22187	13	9.650	20.451	22259	12	12.920	21.514
21972	14	0.030	17.270	22044	27	6.922	18.006	22116	21	8.961	19.674	22188	15	9.756	20.490	22260	27	13.202	21.938
21973	18	0.174	17.668	22045	13	7.401	18.358	22117	10	8.963	19.568	22189	18	9.764	20.844	22261	31	13.216	21.947
21974	17	0.270	17.494	22046	23	7.850	18.438	22118	26	10.200	19.247	22190	10	10.228	20.336	22262	41	15.868	21.723
21975	15	0.960	17.224	22047	10	8.786	18.444	22119	13	10.676	19.956	22191	10	10.394					



22274	42	18 021	21 891	22346	13	22 117	22 889	22418	27	6 038	24 242	22490	21	14 856	25 146	22576	12	7 107	0 024
22275	32	18 074	21 090	22347	28	22 120	22 360	22419	26	8 455	24 020	22491	12	15 368	25 655	22577	46	7 160	0 960
22276*	49	18 916	21 795	22348	25	22 358	22 584	22420	11	8 612	24 982	22492	20	15 511	25 608	22578	11	7 492	0 781
22277	20	19 896	21 813	22349	16	23 737	22 306	22421	12	8 753	24 647	22493	21	15 704	25 891	22579	13	7 626	0 604
22278	26	19 918	21 189	22350	14	23 972	22 490	22422	21	9 343	24 000	22494	12	15 784	25 634	22580	18	7 675	0 833
22279	23	20 308	21 964	22351	40	24 261	22 698	22423	11	9 500	24 386	22495	10	16 346	25 517	22581	11	7 780	0 578
22280	30	20 332	21 392	22352	43	24 352	22 260	22424	16	10 146	24 595	22496	25	18 212	25 236	22582	27	7 798	0 543
22281	41	20 426	21 272	22353	26	25 006	22 340	22425	11	10 500	24 606	22497	28	18 394	25 202	22583	17	7 864	0 692
22282	46	20 656	21 364	22354	14	25 310	22 141	22426	29	10 612	24 116	22498	11	18 490	25 570	22584	30	8 100	0 215
22283	30	21 066	21 183	22355	12	25 654	22 603	22427	33	11 310	24 000	22499	23	18 842	25 450	22585	16	8 123	0 207
22284	15	21 361	21 825	22356	10	25 739	22 360	22428	31	11 676	24 974	22500	16	20 019	25 490	22586	10	8 123	0 711
22285*	55	21 384	21 760	22357	11	0 183	23 118	22429	31	11 703	24 860	22501	11	20 072	25 587	22587*	63	8 200	0 014
22286	19	21 960	21 540	22358	47	0 666	23 446	22430	15	11 712	24 206	22502	34	20 760	25 220	22588	18	8 223	0 806
22287	31	22 056	21 188	22359	18	0 890	23 104	22431	13	11 740	24 326	22503	19	21 080	25 756	22589	16	9 513	0 558
22288	30	22 222	21 258	22360	25	1 684	23 244	22432	15	11 864	24 456	22504	16	21 094	25 300	22590	29	9 987	0 428
22289	23	22 661	21 520	22361	35	1 830	23 543	22433	17	12 161	24 384	22505	23	21 940	25 120	22591	14	10 303	0 275
22290	48	22 864	21 390	22362	28	2 018	23 490	22434	19	12 202	24 786	22506	10	22 144	25 708	22592	20	10 458	0 030
22291	13	23 008	21 848	22363	10	2 473	23 250	22435	21	12 420	24 136	22507	48	22 300	25 266	22593	14	10 474	0 588
22292	26	23 064	21 256	22364	36	3 392	23 412	22436	10	12 520	24 311	22508	13	23 388	25 462	22594	22	10 458	0 760
22293	49	23 085	21 125	22365	17	3 790	23 630	22437	22	12 780	24 520	22509	23	23 700	25 150	22595	15	11 362	0 401
22294	11	23 260	21 240	22366	33	4 257	23 147	22438*	60	13 140	24 224	22510	47	23 763	25 706	22596	32	11 674	0 943
22295	13	23 722	21 336	22367	31	4 483	23 773	22439	40	13 714	24 578	22511	32	23 861	25 656	22597	12	11 882	0 910
22296	22	24 864	21 018	22368	35	5 423	23 172	22440	36	14 628	24 266	22512	54	24 146	25 156	22598	14	11 909	0 058
22297	48	25 020	21 121	22369	22	5 844	23 004	22441	12	14 860	24 601	22513	64	24 499	25 194	22599	35	11 922	0 888
22298	11	25 920	21 950	22370*	45	6 314	23 084	22442	50	15 412	24 200	22514	73	24 717	25 144	22600	24	12 139	0 846
22299	14	0 734	22 262	22371*	41	7 944	23 280	22443	50	15 864	24 016	22515	19	25 592	25 298	22601	11	12 528	0 168
22300	27	0 852	22 450	22372	35	8 279	23 651	22444	22	16 900	24 308	22602	14	25 992	25 298	22602	14	12 935	0 202
22301	12	1 845	22 640	22373	48	10 060	23 780	22445	14	16 912	24 844	22603	20	26 300	25 266	22603	20	13 025	0 476
22302	21	1 913	22 596	22374	21	10 174	23 258	22446	47	18 038	24 224	22604	32	26 388	25 462	22604	32	13 048	0 260
22303	23	1 938	22 928	22375	18	10 349	23 562	22447	15	19 486	24 058	22605	30	26 606	25 150	22605	30	13 082	0 290
22304	12	2 372	22 268	22376	21	10 808	23 200	22448	39	19 822	24 916	22606	17	26 607	25 150	22606	17	13 121	0 420
22305*	56	2 480	22 543	22377	32	11 977	23 216	22449	28	20 100	24 808	22607	15	26 608	25 150	22607	15	13 153	0 792
22306	25	2 750	22 167	22378	24	13 534	23 216	22450	30	20 552	24 052	22608	20	26 608	25 150	22608	20	13 285	0 890
22307	28	3 128	22 708	22379	50	13 790	23 018	22451	12	20 961	24 608	22609	14	26 609	25 150	22609	14	13 380	0 439
22308	35	3 510	22 485	22380	16	13 852	23 929	22452	26	21 024	24 917	22610	13	26 610	25 150	22610	13	13 530	0 050
22309	13	4 754	22 318	22381	36	14 020	23 261	22453	27	21 084	24 330	22611	15	26 611	25 150	22611	15	13 600	0 978
22310	11	5 106	22 236	22382	28	15 029	23 482	22454	31	21 792	24 148	22612	19	26 612	25 150	22612	19	13 622	0 510
22311	28	5 510	22 160	22383	40	15 659	23 106	22455	30	22 377	24 816	22613	13	26 613	25 150	22613	13	13 690	0 132
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22316	24	7 184	22 818	22388	26	17 620	23 683	22460	16	25 532	24 660	22618	16	26 618	25 150	22618	16	15 938	0 600
22317	19	7 386	22 946	22389	44	17 778	23 860	22461	50	25 817	24 378	22619	22	26 619	25 150	22619	22	16 090	0 923
22318	16	7 557	22 370	22390	17	18 252	23 887	22462	26	0 055	25 565	22620	24	26 620	25 150	22620	24	16 095	0 168
22319	12	7 704	22 190	22391	41	19 636	23 542	22463	17	1 332	25 046	22621	10	26 621	25 150	22621	10	16 103	0 224
22320	10	9 270	22 160	22392	17	20 450	23 330	22464	14	1 337	25 844	22622	19	26 622	25 150	22622	19	16 125	0 650
22321	10	9 457	22 400	22393	12	20 460	23 184	22465*	64	1 383	25 330	22623	21	26 623	25 150	22623	21	16 253	0 305
22322	20	10 331	22 564	22394	16	20 842	23 662	22466	12	1 662	25 860	22624	19	26 624	25 150	22624	19	16 368	0 782
22323	18	11 206	22 919	22395	16	21 032	23 960	22467	14	3 363	25 840	22625	59	26 625	25 150	22625	59	16 752	0 625
22324	25	12 262	22 535	22396	17	21 617	23 900	22468	13	3 608	25 452	22626	12	26 626	25 150	22626	12	16 874	0 142
22325	28	12 297	22 676	22397	26	21 636	23 788	22469	11	4 272	25 457	22627	18	26 627	25 150	22627	18	16 923	0 242
22326	19	13 685	22 707	22398	10	22 442	23 315	22470	12	4 984	25 920	22628	29	26 628	25 150	22628	29	17 250	0 578
22327	18	14 736	22 949	22399	16	22 460	23 077	22471	61	6 196	25 652	22629	22	26 629	25 150	22629	22	17 318	0 224
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22331	41	15 383	22 715	22403	21	23 248	23 369	22475	15	9 001	25 426	22633	10	26 633	25 150	22633	10	18 582	0 276
22332	27	16 263	22 115	22404	17	23 472	23 175	22476	48	9 035	25 137	22634	17	26 634	25 150	22634	17	18 628	0 530
22333	10	16 472	22 766	22405	10	23 610	23 094	22477	15	9 312	25 957	22635	29	26 635	25 150	22635	29	19 445	0 936
22334	36	16 930	22 642	22406	29	23 938	23 720	22478	20	9 358	25 546	22636	17	26 636	25 150	22636	17	19 464	0 702
22335	13	17 100	22 599	22407	56	23 987	23 584	22479	30	9 437	25 050	22637	11	26 637	25 150	22637	1		



22648	16	22.300	0.454	22720	14	10.841	1.229	22792	16	2.370	2.024	22864	12	24.514	2.436	22936	22	16.425	3.575
22649	18	22.300	0.448	22721	12	11.084	1.668	22793	29	5.002	2.852	22865	20	24.532	2.045	22937	38	16.426	3.440
22650	65	22.549	0.520	22722	15	11.256	1.916	22794	40	5.185	2.066	22866	13	24.555	2.200	22938	62	16.764	3.186
22651	11	22.952	0.152	22723	12	11.634	1.970	22795	17	5.332	2.234	22867	37	24.584	2.535	22939	13	16.928	3.056
22652	15	23.180	0.015	22724	13	11.690	1.506	22796	25	6.870	2.955	22868	12	24.760	2.684	22940	31	16.958	3.348
22653	12	23.319	0.220	22725	20	12.074	1.644	22797	28	6.962	2.801	22869	34	24.821	2.750	22941	18	16.983	3.970
22654	37	23.466	0.785	22726	31	12.232	1.430	22798	38	7.272	2.875	22870	21	25.604	2.135	22942	18	17.098	3.434
22655	12	23.480	0.072	22727	41	12.290	1.188	22799	14	7.369	2.746	22871	31	25.725	2.173	22943	15	17.158	3.898
22656	20	23.515	0.616	22728	20	13.341	1.733	22800	19	7.418	2.469	22872	45	25.955	2.510	22944	15	17.180	3.434
22657	15	23.560	0.882	22729	17	13.360	1.801	22801	18	7.676	2.224	22873	22	26.000	2.875	22945	15	17.335	3.624
22658	15	23.630	0.680	22730	19	13.728	1.330	22802	13	7.864	2.734	22874	11	0.099	3.159	22946	28	17.780	3.990
22659	11	23.780	0.732	22731	11	14.345	1.908	22803	31	8.084	2.174	22875	25	0.403	3.810	22947	15	17.848	3.180
22660	38	23.842	0.363	22732	13	14.440	1.828	22804	36	8.244	2.890	22876	34	0.674	3.124	22948	32	17.901	3.220
22661	50	23.911	0.852	22733	12	14.579	1.640	22805	32	8.470	2.488	22877	11	0.749	3.797	22949	24	18.251	3.104
22662	16	23.927	0.615	22734	35	15.068	1.319	22806	16	8.550	2.677	22878	10	1.284	3.377	22950	22	18.388	3.176
22663	12	24.059	0.148	22735	40	15.088	1.018	22807	15	9.171	2.284	22879	15	1.340	3.196	22951	22	18.454	3.416
22664	14	24.774	0.395	22736	15	15.333	1.776	22808	17	9.607	2.134	22880	30	1.474	3.363	22952	14	19.146	3.476
22665	29	25.213	0.142	22737	44	15.336	1.996	22809	20	9.685	2.398	22881	53	1.537	3.396	22953	34	19.343	3.006
22666	28	25.495	0.642	22738	19	15.400	1.981	22810	22	9.768	2.275	22882	37	1.708	3.596	22954	20	19.546	3.147
22667	26	25.706	0.352	22739	17	15.445	1.461	22811	32	9.929	2.790	22883	24	2.364	3.238	22955	39	19.654	3.050
22668	20	25.795	0.818	22740	25	15.548	1.872	22812	30	10.985	2.646	22884	29	2.540	3.150	22956	31	19.710	3.954
22669	20	25.830	0.726	22741	14	15.760	1.214	22813	25	11.198	2.898	22885	12	3.033	3.714	22957	33	19.834	3.080
22670	19	25.966	0.648	22742	24	16.624	1.776	22814	40	11.654	2.789	22886	12	3.720	3.918	22958	14	20.092	3.325
22671	36	0.120	1.370	22743	13	16.815	1.800	22815	19	12.198	2.325	22887	11	3.928	3.475	22959	14	20.500	3.814
22672	19	0.470	1.794	22744	43	16.912	1.470	22816	18	12.230	2.704	22888	40	3.938	3.116	22960	24	21.030	3.650
22673	19	0.590	1.856	22745	11	17.200	1.844	22817	20	12.405	2.725	22889	17	4.303	3.462	22961	37	21.201	3.924
22674	22	0.815	1.358	22746	36	17.384	1.810	22818	34	13.011	2.825	22890	16	4.330	3.922	22962	16	21.401	3.985
22675	25	1.354	1.112	22747	12	17.475	1.717	22819	26	13.050	2.189	22891	20	4.540	3.706	22963	24	21.502	3.180
22676	20	1.386	1.305	22748	42	17.726	1.640	22820	12	13.286	2.424	22892	10	4.665	3.405	22964	36	22.394	3.610
22677	40	1.566	1.204	22749	26	17.758	1.556	22821	20	14.650	2.783	22893	14	4.912	3.265	22965	14	22.580	3.207
22678	14	2.034	1.730	22750	45	17.901	1.645	22822	12	14.934	2.460	22894	12	5.109	3.490	22966	12	22.659	3.585
22679	12	2.104	1.839	22751	19	18.083	1.772	22823	12	15.382	2.686	22895	47	5.384	3.808	22967	20	23.075	3.120
22680	45	2.416	1.366	22752	12	18.190	1.288	22824	30	15.500	2.148	22896	14	5.390	3.958	22968	26	23.340	3.578
22681	20	2.518	1.018	22753	12	18.665	1.766	22825	32	16.035	2.894	22897	14	5.678	3.636	22969	14	23.340	3.245
22682	11	2.573	1.016	22754	22	18.698	1.726	22826	26	16.106	2.336	22898	36	6.216	3.292	22970	13	23.400	3.544
22683	19	3.082	1.565	22755	13	19.300	1.224	22827	31	16.109	2.740	22899	24	6.700	3.850	22971	12	23.436	3.160
22684	13	3.494	1.522	22756	15	19.451	1.106	22828	15	16.525	2.332	22900	31	6.730	3.461	22972	23	24.172	3.510
22685	12	3.564	1.096	22757	42	19.851	1.620	22829	14	16.580	2.298	22901	15	6.815	3.547	22973	32	24.440	3.600
22686	28	3.688	1.870	22758	17	19.899	1.510	22830	20	17.036	2.100	22902	31	6.892	3.335	22974	12	24.696	3.189
22687	18	4.047	1.195	22759	28	19.940	1.752	22831	19	17.360	2.910	22903	26	7.072	3.870	22975	17	24.940	3.675
22688	37	4.082	1.130	22760	46	20.128	1.974	22832	14	17.378	2.042	22904	16	7.276	3.948	22976	14	24.978	3.308
22689	10	4.360	1.880	22761	16	21.410	1.108	22833	18	17.511	2.010	22905	14	7.822	3.356	22977	12	25.114	3.486
22690	14	4.441	1.511	22762	23	21.460	1.994	22834	35	17.685	2.708	22906	13	7.934	3.620	22978	13	25.175	3.881
22691	28	4.584	1.671	22763	23	21.475	1.558	22835	27	17.695	2.210	22907	20	7.985	3.620	22979	28	25.950	3.648
22692	18	4.885	1.575	22764	20	21.564	1.610	22836	31	17.788	2.474	22908	40	7.985	3.935	22980	20	25.999	3.350
22693	44	5.081	1.350	22765	13	21.600	1.410	22837	27	17.989	2.607	22909	19	8.238	3.956	22981	36	0.051	4.702
22694	14	5.162	1.284	22766	20	21.780	1.080	22838	15	18.424	2.736	22910	15	9.028	3.214	22982	43	0.491	4.785
22695	16	5.322	1.934	22767	12	22.396	1.734	22839	30	18.645	2.770	22911	22	9.142	3.278	22983	14	1.825	4.776
22696	14	5.400	1.105	22768	22	22.580	1.480	22840	12	19.364	2.190	22912	18	9.150	3.487	22984	17	2.443	4.742
22697	31	5.520	1.198	22769	12	22.769	1.236	22841	31	19.420	2.342	22913	19	9.964	3.185	22985	39	2.537	4.685
22698	15	5.600	1.720	22770	30	22.804	1.075	22842	31	19.720	2.275	22914	20	10.284	3.067	22986	13	2.615	4.494
22699	24	5.655	1.180	22771	19	22.925	1.704	22843	13	19.890	2.368	22915	24	11.140	3.960	22987	31	2.930	4.964
22700	20	6.490	1.300	22772	18	23.175	1.742	22844	12	19.905	2.129	22916	17	11.410	3.064	22988	12	3.352	4.938
22701	14	6.555	1.646	22773	12	23.192	1.780	22845	19	20.544	2.116	22917	28	11.508	3.111	22989	27	3.414	4.680
22702	11	7.064	1.694	22774	11	23.222	1.284	22846	16	20.846	2.258	22918	13	11.700	3.990	22990	19	3.490	4.937
22703	18	7.168	1.183	22775	13	23.346	1.129	22847	14	20.932	2.972	22919	20	11.943	3.966	22991	22	4.010	4.650
22704	12	7.489	1.102	22776	22	23.722	1.171	22848	30	20.935	2.568	22920	14	12.175	3.034	22992	37	4.128	4.965
22705	40	7.857	1.116	22777	27	23.948	1.779	22849	23	21.898	2.534	22921	22	12.355	3.338	22993	22	4.752	4.350
22706	36	8.242	1.378	22778	25	24.218	1.212	22850	12	21.976	2.984	22922	14	12.384	3.886	22994	24	4.820	4.693
22707	18	8.629	1.028	22779	20	24.466	1.080	22851	11	21.978	2.940	22923	24	12.998	3.730	22995	62	4.841	4.008
22708	24	8.642	1.128	22780	38	24.728	1.992	22852	13	22.050	2.140	22924	17	13.210	3.576	22996	17	5.124	4.106
22709	13	8.666	1.987	22781	14	24.905	1.028	22853	12	22.275	2.690	22925	20	13.314	3.174	22997	25	5.820	4.764
22710	20	8.795	1.361	22782	13	24.990	1.834	22854	40	22.402	2.042	22926	16	13.365	3.125	22998	27	6.090	4.586
22711	17	9.014	1.100	22783	11	25.026													



23008	15	8 612	4.958	23080	35	25.620	4.906	23152	26	15.952	5.800	23224	11	9.982	6.676	23296	26	2.375	7.681
23009	11	9.200	4.266	23081	19	25.838	4.691	23153	35	15.979	5.699	23225	15	10.139	6.242	23297	24	2.425	7.895
23010	16	9.289	4.162	23082	12	25.984	4.851	23154	10	16.004	5.826	23226	16	10.255	6.590	23298	21	2.518	7.440
23011	20	9.816	4.867	23083	44	0.760	5.385	23155	14	16.353	5.425	23227	16	10.672	6.738	23299	15	2.670	7.930
23012	22	9.970	4.085	23084	15	1.566	5.330	23156	12	16.374	5.696	23228	12	10.947	6.610	23300	14	2.770	7.595
23013	13	10.519	4.387	23085	32	1.725	5.926	23157	30	16.558	5.934	23229	13	11.410	6.558	23301	11	3.180	7.546
23014	12	10.616	4.532	23086	26	1.741	5.934	23158	19	16.735	5.275	23230	12	11.663	6.470	23302	10	3.434	7.110
23015	18	10.706	4.193	23087	13	1.749	5.080	23159	12	16.817	5.438	23231	15	11.684	6.650	23303	36	3.621	7.525
23016	14	10.820	4.118	23088	24	1.975	5.390	23160	13	16.871	5.884	23232	35	11.748	6.888	23304	32	3.850	7.795
23017	20	10.996	4.970	23089	29	2.156	5.228	23161	12	16.890	5.680	23233	103	12.168	6.697	23305	14	4.425	7.950
23018	15	11.630	4.708	23090	18	2.204	5.166	23162	36	17.158	5.706	23234	26	12.410	6.571	23306	12	4.939	7.027
23019	16	12.157	4.485	23091	25	2.264	5.718	23163	20	18.030	5.804	23235	17	12.451	6.162	23307	12	5.390	7.550
23020	40	12.220	4.098	23092	23	2.614	5.135	23164	12	18.040	5.414	23236	33	12.632	6.823	23308	27	5.459	7.922
23021	19	12.370	4.464	23093	36	2.784	5.641	23165	15	18.052	5.250	23237	12	13.092	6.417	23309	14	5.464	7.534
23022	16	12.573	4.155	23094	15	2.967	5.242	23166	14	18.330	5.410	23238	11	13.108	6.816	23310	35	5.794	7.370
23023	13	12.605	4.928	23095	12	3.296	5.826	23167	31	18.750	5.774	23239	23	13.225	6.516	23311	22	5.832	7.552
23024	11	12.873	4.822	23096	13	3.456	5.429	23168	32	18.900	5.440	23240	12	13.320	6.228	23312	10	5.818	7.191
23025	14	13.068	4.751	23097	12	3.842	5.512	23169	12	18.911	5.558	23241	17	13.480	6.900	23313	15	6.610	7.780
23026	24	13.451	4.144	23098	24	4.008	5.565	23170	13	19.307	5.200	23242	15	13.683	6.527	23314	14	6.695	7.545
23027	48	13.530	4.181	23099	16	4.060	5.656	23171	28	19.372	5.910	23243	16	13.958	6.400	23315	10	7.089	7.934
23028	15	13.956	4.356	23100	15	4.254	5.650	23172	17	19.714	5.594	23244	13	14.145	6.188	23316	24	7.464	7.910
23029	13	13.993	4.346	23101	40	4.381	5.191	23173	10	19.913	5.345	23245	95	14.425	6.011	23317	28	7.724	7.110
23030	15	14.145	4.856	23102	14	4.616	5.755	23174	19	20.056	5.394	23246	18	14.483	6.626	23318	13	8.652	7.608
23031	20	14.563	4.736	23103	12	4.624	5.169	23175	18	20.183	5.656	23247	21	14.615	6.530	23319	11	8.668	7.937
23032	20	15.039	4.599	23104	31	5.120	5.954	23176	26	20.746	5.216	23248	27	15.068	6.200	23320	16	8.720	7.735
23033	19	15.952	4.420	23105	15	5.465	5.632	23177	25	21.046	5.711	23249	27	15.084	6.162	23321	13	9.174	7.952
23034	16	16.108	4.891	23106	12	5.600	5.914	23178	11	21.368	5.738	23250	33	15.172	6.935	23322	20	10.128	7.448
23035	19	16.498	4.248	23107	20	6.845	5.534	23179	14	21.911	5.290	23251	20	15.328	6.462	23323	19	10.208	7.801
23036	49	16.616	4.580	23108	32	6.996	5.780	23180	19	22.134	5.055	23252	22	15.647	6.106	23324	12	10.295	7.658
23037	28	16.640	4.561	23109	30	7.018	5.427	23181	13	22.395	5.206	23253	12	16.165	6.734	23325	16	10.310	7.530
23038	27	16.826	4.085	23110	47	7.461	5.596	23182	17	23.100	5.845	23254	20	16.466	6.076	23326	18	10.396	7.450
23039	35	17.058	4.210	23111	13	7.473	5.840	23183	15	23.104	5.376	23255	14	16.778	6.124	23327	13	10.474	7.268
23040	12	17.250	4.610	23112	13	7.826	5.880	23184	34	23.628	5.821	23256	17	17.370	6.751	23328	13	10.666	7.306
23041	17	17.740	4.462	23113	35	7.865	5.448	23185	38	24.300	5.811	23257	20	17.448	6.952	23329	18	11.054	7.470
23042	28	17.747	4.496	23114	16	7.890	5.083	23186	50	24.434	5.305	23258	31	17.482	6.320	23330	14	11.220	7.328
23043	12	17.918	4.668	23115	12	7.927	5.245	23187	14	24.802	5.602	23259	30	17.786	6.560	23331	20	11.440	7.590
23044	40	18.385	4.810	23116	18	8.408	5.728	23188	12	25.450	5.576	23260	13	18.159	6.136	23332	11	11.729	7.210
23045	36	18.410	4.946	23117	16	8.420	5.733	23189	35	25.715	5.200	23261	12	18.370	6.241	23333	18	11.890	7.203
23046	60	18.490	4.276	23118	13	8.527	5.711	23190	11	25.786	5.161	23262	20	18.552	6.698	23334	52	12.250	7.153
23047	15	19.548	4.956	23119	12	8.635	5.803	23191	13	25.800	5.364	23263	24	18.726	6.632	23335	24	12.290	7.332
23048	11	19.608	4.410	23120	13	8.678	5.488	23192	27	0.290	6.460	23264	13	18.872	6.532	23336	21	12.370	7.249
23049	12	19.858	4.387	23121	20	8.690	5.892	23193	12	0.510	6.130	23265	16	18.879	6.695	23337	12	12.490	7.885
23050	12	19.991	4.150	23122	20	8.779	5.120	23194	14	2.381	6.635	23266	15	18.968	6.782	23338	19	12.630	7.658
23051	14	20.040	4.636	23123	19	8.808	5.500	23195	20	2.534	6.412	23267	23	19.599	6.050	23339	12	12.690	7.686
23052	14	20.200	4.038	23124	14	8.862	5.804	23196	28	2.756	6.404	23268	12	19.756	6.284	23340	23	12.830	7.250
23053	20	20.523	4.632	23125	18	8.870	5.285	23197	20	3.450	6.180	23269	20	20.220	6.901	23341	11	12.840	7.514
23054	10	20.597	4.668	23126	23	8.986	5.179	23198	22	3.600	6.827	23270	13	20.440	6.512	23342	18	12.894	7.372
23055	24	20.782	4.070	23127	54	9.498	5.936	23199	19	3.676	6.397	23271	12	20.640	6.344	23343	29	12.900	7.358
23056	22	20.834	4.450	23128	18	9.563	5.950	23200	16	3.900	6.164	23272	13	21.275	6.504	23344	40	13.408	7.670
23057	12	21.120	4.734	23129	12	9.727	5.756	23201	33	4.076	6.202	23273	58	21.434	6.370	23345	30	13.806	7.954
23058	12	21.475	4.761	23130	16	9.730	5.284	23202	25	4.370	6.880	23274	20	22.070	6.924	23346	33	14.034	7.464
23059	30	21.855	4.220	23131	24	10.620	5.998	23203	18	4.434	6.458	23275	12	22.149	6.150	23347	13	14.047	7.302
23060	20	21.902	4.866	23132	12	10.703	5.253	23204	22	5.050	6.413	23276	65	22.697	6.610	23348	12	14.164	7.885
23061	20	21.922	4.710	23133	13	10.950	5.550	23205	14	5.475	6.875	23277	17	22.940	6.982	23349	24	14.357	7.592
23062	18	22.010	4.156	23134	20	11.028	5.983	23206	32	5.961	6.310	23278	18	23.183	6.261	23350	17	14.402	7.540
23063	30	22.344	4.090	23135	17	11.416	5.404	23207	22	6.028	6.412	23279	29	23.200	6.470	23351	16	14.656	7.180
23064	22	22.484	4.590	23136	19	11.540	5.672	23208	10	6.105	6.400	23280	14	23.796	6.496	23352	28	14.873	7.718
23065	24	22.493	4.640	23137	20	11.664	5.004	23209	15	6.238	6.932	23281	20	24.155	6.755	23353	13	15.135	7.312
23066	32	22.535	4.606	23138	30	11.826	5.338	23210	14	7.027	6.780	23282	28	24.720	6.852	23354	16	15.151	7.050
23067	15	22.695	4.219	23139	24	12.240	5.546	23211	34	7.264	6.519	23283	24	24.740	6.908	23355	14	15.275	7.317
23068	13	23.072	4.364	23140	30	12.705	5.890	23212	15	7.522	6.080	23284	29	24.806	6.868	23356	26	15.302	7.040
23069	12	23.150	4.609	23141	20	12.915	5.555	23213	14	7.620	6.838	23285	55	24.959	6.616	23357	54	15.390	7.430
23070	40	23.310	4.720	23142	17	13.132	5.312	23214	14	7.659	6.241	23286	20	25.466	6.258	23358	14	15.692	7.168
23071	14	23.816	4.960	23143															



23368	40	18.386	7 615	23440	15	6.600	8.400	23512	38	20 752	8.383	23584	20	11 677	9 208	23656	12	1 308	10.558
23369	22	18.415	7 363	23441	15	6.924	8 290	23513	18	21 191	8.784	23585	16	12 365	9 694	23657	14	1.436	10 594
23370	11	18 725	7 264	23442	15	7 188	8.249	23514	11	21 206	8.082	23586	19	12 917	9 330	23658	28	1 710	10 138
23371	24	18.789	7.680	23443	25	7 380	8.909	23515	38	21 268	8 591	23587	16	12 922	9 470	23659	12	1 858	10 522
23372	18	18 810	7 585	23444	50	7 417	8 911	23516	18	21 271	8 804	23588	13	13 336	9 161	23660	14	1 904	10.554
23373	14	18 820	7.764	23445	23	7 424	8 166	23517	35	21 350	8 131	23589	53	14 281	9 935	23661	23	2 143	10 873
23374	18	18 845	7 876	23446	24	7 708	8 672	23518	16	21 371	8.255	23590	13	14 800	9 708	23662	11	2 258	10 736
23375	23	18 970	7 005	23447	12	8 227	8.854	23519	13	21 400	8 140	23591	11	14 965	9.314	23663	23	2 545	10.250
23376	17	19 330	7 573	23448	24	8.310	8 920	23520	15	21 425	8 745	23592	17	15.150	9 090	23664	14	2 662	10 291
23377	26	19.520	7 954	23449	23	8 368	8 530	23521	23	21 470	8 594	23593	18	15.233	9 300	23665	23	2 724	10 363
23378*	48	19.744	7.209	23450	12	8 774	8 121	23522	25	22.123	8 666	23594	24	15.326	9.248	23666	32	2 896	10 120
23379	22	19.850	7.278	23451	11	8 918	8 878	23523	12	22.290	8 658	23595	17	15 365	9 454	23667	10	2.926	10 647
23380	12	20.120	7.375	23452	15	9 024	8 638	23524	14	22.440	8 952	23596	32	15.562	9 886	23668	12	2.935	10.784
23381	14	20.631	7.461	23453	13	9 174	8.721	23525	20	22.590	8 450	23597	14	15 764	9 494	23669	14	3 016	10 964
23382	27	20 738	7 518	23454	13	9 185	8.858	23526	16	22.914	8.155	23598	25	15 870	9 758	23670	13	3.162	10.694
23383*	43	20 766	7 670	23455	20	9 275	8 314	23527	20	22.928	8 929	23599	12	15 880	9 692	23671	14	3 361	10 528
23384	28	21 030	7 332	23456	15	9 350	8.515	23528	19	23 018	8.463	23600	13	15.930	9 128	23672	12	3 614	10 725
23385	14	21 126	7 868	23457	15	9.382	8.654	23529	12	23 114	8 298	23601	12	16 032	9.151	23673	19	3 770	10 958
23386	20	21 126	7 654	23458	26	9 732	8 726	23530	19	23 365	8.406	23602	14	16 271	9.817	23674	32	3 800	10.560
23387	12	21.250	7.960	23459	16	9.854	8 613	23531	12	23.532	8.930	23603	16	16 276	9 431	23675	13	3 850	10.798
23388	18	21.384	7 734	23460	13	10.044	8.093	23532	17	23 606	8 022	23604	11	16.315	9 421	23676	12	3 973	10 178
23389	16	22.186	7.723	23461	11	10.046	8 210	23533	35	23 649	8.017	23605	10	17 030	9 245	23677	12	4 334	10 612
23390	40	22.292	7 686	23462	24	10.095	8.528	23534	21	23.730	8 791	23606	12	17 701	9.334	23678	25	4 410	10 174
23391	11	22.760	7.164	23463	20	10.454	8.974	23535	16	23.762	8 801	23607	13	17.971	9 426	23679	12	4 578	10 170
23392	12	22.960	7.671	23464	34	10.715	8.158	23536	31	23 846	8.531	23608	14	18 200	9 760	23680	14	4 586	10 476
23393	32	23 274	7 972	23465	22	10 800	8.788	23537	20	23 882	8 060	23609	18	18 208	9.730	23681	29	4 830	10 296
23394	14	23.396	7.786	23466	15	10.898	8.328	23538	14	23.898	8 568	23610	30	18.280	9 750	23682	12	5 133	10 879
23395	34	23.480	7 562	23467	15	11 004	8 670	23539	20	24 028	8 914	23611	12	18.926	9 300	23683	12	6.160	10 808
23396	12	23.760	7 220	23468	13	11.071	8 774	23540	19	24 126	8 274	23612	12	18 984	9 458	23684	34	6 278	10.318
23397	20	23 915	7 760	23469	16	11 121	8 135	23541	13	24 290	8 736	23613	46	19.158	9 020	23685	27	6 340	10 021
23398	35	24.175	7.052	23470	11	11 458	8.694	23542	18	24 324	8 039	23614	12	19 614	9 261	23686	20	6 672	10.720
23399	18	24.388	7.268	23471	30	11.622	8.958	23543	17	24 390	8 380	23615	14	20 525	9.340	23687	12	6 795	10 566
23400	13	24.456	7.770	23472	11	11.712	8 414	23544	16	24 860	8 785	23616	19	20 870	9.566	23688	14	7.320	10.788
23401	15	24.475	7.072	23473	15	11.739	8 755	23545	20	24 945	8.856	23617	14	20.936	9.670	23689	14	7.348	10 772
23402	12	24.819	7.092	23474	21	11 938	8 955	23546	11	25 100	8.570	23618	16	21 590	9.338	23690	12	7.891	10 859
23403*	40	24.870	7 538	23475	12	11.970	8 243	23547	15	25 423	8.478	23619	13	21 946	9.789	23691	24	8.132	10.272
23404	12	25.090	7.980	23476	27	12.092	8 460	23548	14	25 829	8 198	23620	14	22.240	9 974	23692	20	8 705	10.075
23405	16	25.433	7 370	23477	21	12 980	8 116	23549	13	0 110	9.636	23621	15	22.360	9 108	23693	11	8.802	10.590
23406	31	25.848	7 553	23478	14	13.275	8 126	23550	19	0 171	9.556	23622	18	22.445	9.082	23694	33	9 076	10.589
23407	37	0.026	8.812	23479	13	13.351	8 735	23551	24	0.195	9.970	23623	16	22.820	9 036	23695	12	9 346	10 860
23408	10	0 232	8 076	23480	12	13 381	8 854	23552	16	2.072	9.292	23624	13	22 842	9.350	23696	25	10 235	10.718
23409	11	0 237	8.450	23481	20	13.698	8.982	23553	20	2.170	9.517	23625	28	23 126	9.372	23697	23	11.380	10.111
23410	13	0 424	8.320	23482	18	13 740	8 775	23554	17	2.294	9.210	23626	25	23.140	9 124	23698	13	12 420	10.377
23411	25	0.600	8 244	23483	15	13.772	8 874	23555	11	2 402	9.740	23627	23	23.460	9.475	23699	15	13.080	10.402
23412	22	0 821	8 866	23484	12	14.672	8 706	23556*	40	2 945	9 845	23628	13	23 514	9.650	23700	40	13 086	10.650
23413	31	1.020	8.966	23485	12	14 690	8.286	23557	14	3.194	9 353	23629	13	23.514	9.376	23701	38	13.266	10.760
23414	44	1.084	8.235	23486	26	15.538	8.214	23558	14	3.215	9 878	23630	14	23.720	9.290	23702	20	13.432	10.500
23415	22	1 391	8 132	23487	11	15 706	8.806	23559	11	3.832	9.920	23631	20	23.858	9 603	23703	18	13.680	10.316
23416	15	1.522	8 652	23488	20	15.891	8.643	23560	12	4.430	9.390	23632	19	24.140	9.210	23704	18	14.010	10 694
23417	15	1.615	8.242	23489	18	15.940	8.060	23561	10	4.728	9.631	23633	35	24.480	9.465	23705	14	14.496	10.371
23418	12	1.665	8.632	23490	12	16 787	8.884	23562	16	5.084	9.332	23634	18	24.610	9.390	23706	10	14.912	10.719
23419	19	2.010	8.850	23491	30	16.801	8.790	23563	34	5.440	9 142	23635	14	24.699	9.158	23707	10	15.078	10.404
23420	12	2.224	8.404	23492	14	16.872	8.346	23564	21	5.540	9 674	23636	18	24.782	9.124	23708	16	15.283	10.014
23421	16	2 490	8.345	23493	15	17.194	8.280	23565*	45	5 604	9.010	23637	16	24.800	9.503	23709	19	15.395	10 290
23422	33	2.516	8.066	23494	38	17.276	8.474	23566	32	5 746	9.425	23638	12	24.802	9.359	23710	14	15 840	10 232
23423	36	2.556	8.795	23495	13	17.458	8.905	23567	33	6.505	9.936	23639	12	24.858	9.406	23711	25	15.902	10.008
23424	12	2.680	8.128	23496	33	17.772	8.089	23568	40	6.572	9.460	23640	12	24.888	9.030	23712	11	15.971	10 281
23425	12	2.926	8.055	23497	12	18.085	8.608	23569	20	6.762	9.600	23641	18	24.906	9.300	23713	12	16 115	10.506
23426	25	3.002	8.894	23498	43	18.770	8.295	23570	40	6.920	9 121	23642	18	24.940	9.365	23714	24	16 270	10.536
23427	16	3.137	8.390	23499	22	18.772	8.324	23571	26	7.822	9 425	23643	14	24.965	9 140	23715	13	16.284	10 622
23428	14	3.190	8.915	23500	12	18.899	8 424	23572	12	7.828	9.322	23644	46	25 019	9.282	23716	12	16 368	10.110
23429	13	3.416	8.550	23501	20	19.120	8.930	23573	20	8.000	9.048	23645	13	25.037	9.576	23717	13	16.460	10 900
23430	12	3.416	8.798	23502	11	19.541	8.322	23574	36	8.856	9.280	23646	10	25.066	9.844	23718	12	16 551	10.802



23728	40	17 666	10 970	23800	11	9 288	11 900	23872	10	23 310	11 471	23944	55	13 978	12 865	24016	14	7 701	13 940
23729	19	17 740	10 680	23801	14	9 464	11 432	23873	10	23 388	11 721	23945	38	14 219	12 496	24017	13	7 742	13 550
23730	17	17 804	10 336	23802	17	9 769	11 218	23874	15	23 922	11 216	23946	22	14 510	12 117	24018	12	8 280	13 586
23731	24	18 076	10 422	23803	17	10 334	11 415	23875	12	23 947	11 210	23947	10	14 555	12 734	24019	13	8 490	13 380
23732	25	18 242	10 004	23804	15	10 385	11 220	23876	15	24 022	11 503	23948	12	14 607	12 678	24020	18	8 572	13 080
23733	22	18 390	10 538	23805	18	10 444	11 130	23877	20	24 070	11 616	23949	13	14 854	12 230	24021	12	9 620	13 590
23734	12	18 768	10 558	23806	24	11 108	11 020	23878	50	24 172	11 310	23950	14	14 856	12 340	24022	36	9 723	13 443
23735	24	18 930	10 944	23807	32	11 680	11 539	23879	25	24 331	11 598	23951	16	14 972	12 646	24023	19	10 307	13 055
23736	21	19 076	10 540	23808	11	11 726	11 030	23880	18	25 152	11 666	23952	20	15 400	12 294	24024	15	10 544	13 454
23737	16	19 096	10 955	23809	27	11 729	11 496	23881	14	25 170	11 656	23953	11	15 471	12 500	24025	31	10 651	13 235
23738	10	19 989	10 314	23810	13	12 178	11 070	23882	29	25 392	11 260	23954	18	15 569	12 032	24026	14	10 725	13 828
23739	13	20 511	10 145	23811	37	12 340	11 880	23883	13	25 510	11 150	23955	14	15 729	12 725	24027	33	10 749	13 206
23740	13	20 694	10 274	23812	40	12 539	11 824	23884	11	25 674	11 867	23956	12	15 740	12 178	24028	12	11 155	13 574
23741	15	21 040	10 576	23813	18	12 700	11 276	23885	65	25 881	11 884	23957	10	15 906	12 433	24029	20	11 172	13 555
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23747	19	21 544	10 076	23819	12	13 480	11 738	23891	23	1 028	12 794	23963	15	17 802	12 720	24035	19	13 265	13 520
23748	19	21 970	10 306	23820	19	13 570	11 190	23892	25	1 254	12 715	23964	13	17 910	12 014	24036	11	13 301	13 820
23749	33	22 368	10 288	23821	20	13 796	11 800	23893	11	1 317	12 581	23965	13	18 320	12 455	24037	11	13 444	13 166
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23753	12	23 230	10 458	23825	14	14 648	11 846	23897	16	2 142	12 401	23969	20	18 760	12 012	24041	40	14 600	13 330
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23755	23	23 745	10 604	23827	12	14 994	11 832	23899	15	3 355	12 106	23971	24	19 638	12 488	24043	17	14 826	13 560
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23757	13	24 290	10 329	23829	40	15 354	11 820	23901	21	3 735	12 218	23973	20	19 878	12 290	24045	15	15 470	13 856
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23760	18	24 930	10 070	23832	36	16 125	11 220	23904	78	4 005	12 563	23976	15	20 304	12 816	24048	31	15 990	13 060
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23787	12	3 890	11 634	23859	12	21 034	11 770	23931	12	10 322	12 740	24003	14	3 180	13 798	24075	10	23 188	13 412
23788	18	4 006	11 412	23860	21	21 425	11 645	23932	12	10 390	12 852	24004	44	3 568	13 106	24076	12	23 189	13 274
23789	14	4 410	11 526	23861	12	21 472	11 766	23933	21	10 509	12 27								



24088	14	25.950	13.231	24160	11	19.071	14.759	24232	40	12.164	15.070	24304	40	3.429	16.282	24376	29	23.172	16.705
24089	11	25.966	13.878	24161	13	19.088	14.808	24233	38	12.164	15.660	24305	14	3.540	16.196	24377	14	23.348	16.608
24090	12	0.449	14.572	24162	47	19.640	14.300	24234	18	12.354	15.614	24306	15	3.836	16.734	24378	22	23.390	16.592
24091	12	0.464	14.443	24163	11	19.900	14.172	24235	14	12.675	15.628	24307	12	3.898	16.250	24379	14	23.430	16.546
24092	22	0.606	14.290	24164	14	20.180	14.842	24236	16	12.792	15.244	24308	22	4.056	16.540	24380	14	23.965	16.764
24093	20	0.777	14.640	24165	12	20.549	14.531	24237	12	12.826	15.672	24309	14	4.270	16.276	24381	15	24.200	16.698
24094	16	1.648	14.126	24166	36	20.922	14.975	24238	12	13.055	15.499	24310	14	4.552	16.456	24382	15	24.274	16.190
24095	16	1.700	14.586	24167	14	20.972	14.404	24239	28	13.067	15.568	24311	12	5.306	16.265	24383	12	24.830	16.206
24096	13	1.851	14.886	24168*	62	21.251	14.670	24240	20	13.210	15.832	24312	24	6.330	16.290	24384	16	24.959	16.930
24097	21	1.876	14.873	24169	25	21.349	14.820	24241	10	13.316	15.170	24313	12	6.988	16.138	24385	13	25.020	16.591
24098	16	1.930	14.830	24170	29	22.070	14.490	24242	10	13.391	15.185	24314	16	7.080	16.818	24386	22	25.272	16.386
24099	31	1.940	14.728	24171*	55	22.115	14.756	24243	19	13.480	15.973	24315	32	7.862	16.235	24387	11	25.376	16.630
24100	33	2.180	14.828	24172	12	22.120	14.090	24244	39	13.515	15.449	24316	13	7.895	16.762	24388	21	25.130	16.080
24101	31	2.213	14.374	24173	40	22.324	14.995	24245	16	13.525	15.606	24317	35	8.228	16.994	24389	13	25.620	16.384
24102	12	2.505	14.472	24174	22	22.455	14.768	24246	19	13.872	15.638	24318	17	8.442	16.563	24390	18	25.686	16.696
24103	19	2.814	14.566	24175	12	22.880	14.336	24247	10	14.213	15.609	24319	21	8.754	16.985	24391	10	25.817	16.200
24104	12	3.228	14.034	24176	12	22.970	14.565	24248	19	14.305	15.775	24320	23	8.771	16.952	24392	11	0.120	17.150
24105	10	3.250	14.274	24177	17	23.734	14.852	24249	20	14.410	15.025	24321	36	9.410	16.948	24393	17	0.672	17.554
24106	14	3.544	14.610	24178	13	24.330	14.580	24250	17	14.431	15.540	24322	12	9.732	16.187	24394	64	0.777	17.844
24107	13	4.119	14.034	24179	12	24.346	14.046	24251	18	15.142	15.869	24323	15	9.742	16.670	24395	20	1.155	17.570
24108	13	4.417	14.777	24180	19	24.770	14.659	24252	22	15.310	15.240	24324	24	10.385	16.881	24396	42	1.463	17.822
24109	18	4.982	14.371	24181	14	25.026	14.930	24253	28	15.353	15.744	24325	13	10.530	16.770	24397	13	2.110	17.226
24110	22	5.066	14.252	24182	13	25.251	14.967	24254	22	15.662	15.926	24326	31	10.620	16.723	24398	35	2.288	17.560
24111	28	5.216	14.714	24183	19	25.252	14.224	24255	20	15.746	15.396	24327	14	10.652	16.086	24399	18	2.882	17.667
24112	34	5.254	14.532	24184	24	25.644	14.087	24256	28	16.228	15.310	24328	20	10.786	16.130	24400	32	3.810	17.760
24113	10	5.654	14.368	24185	27	25.698	14.306	24257	28	16.335	15.722	24329	28	10.790	16.445	24401	24	3.929	17.104
24114	18	5.827	14.880	24186	10	25.933	14.474	24258	24	16.810	15.460	24330	12	11.008	16.730	24402	26	4.038	17.420
24115*	62	6.540	14.546	24187	40	0.128	15.129	24259	11	16.917	15.610	24331	17	11.518	16.305	24403	11	4.201	17.390
24116	20	6.746	14.035	24188	13	0.246	15.668	24260	12	17.576	15.889	24332	12	11.530	16.204	24404	16	4.569	17.754
24117	21	7.145	14.484	24189	21	0.550	15.054	24261	14	18.181	15.935	24333	10	11.570	16.860	24405	22	4.812	17.942
24118	13	7.224	14.712	24190	16	0.920	15.844	24262	29	18.254	15.465	24334	13	11.614	16.894	24406	17	4.812	17.955
24119	16	7.400	14.066	24191	19	1.111	15.834	24263	12	18.601	15.364	24335	12	11.859	16.326	24407	13	5.500	17.646
24120	12	7.420	14.866	24192	16	1.400	15.412	24264	11	18.682	15.948	24336	10	11.942	16.889	24408	20	5.562	17.955
24121	23	7.428	14.202	24193	36	1.415	15.516	24265	20	19.073	15.436	24337	35	11.979	16.526	24409	11	6.175	17.264
24122	21	7.492	14.954	24194	39	1.477	15.350	24266	22	19.572	15.833	24338	13	12.328	16.745	24410	29	6.605	17.204
24123	19	7.616	14.990	24195	20	1.652	15.025	24267	14	19.600	15.512	24339	17	13.208	16.552	24411	14	6.922	17.894
24124	18	7.780	14.810	24196*	46	1.876	15.370	24268	40	19.654	15.446	24340	19	13.434	16.230	24412	18	7.136	17.209
24125	40	9.330	14.190	24197	21	2.148	15.489	24269*	60	19.852	15.805	24341	20	13.960	16.062	24413	12	7.252	17.365
24126	12	10.016	14.412	24198	15	2.355	15.045	24270	19	20.010	15.310	24342	41	14.103	16.796	24414	25	8.323	17.061
24127	20	10.336	14.952	24199	32	3.271	15.667	24271	13	20.192	15.902	24343*	80	14.534	16.935	24415	20	8.360	17.320
24128	13	10.890	14.720	24200	21	3.336	15.152	24272	12	20.366	15.980	24344	47	14.744	16.223	24416	19	8.544	17.325
24129	31	10.975	14.398	24201	20	3.336	15.010	24273	16	20.485	15.918	24345	14	15.098	16.432	24417	20	8.755	17.426
24130	12	12.376	14.766	24202	20	4.396	15.720	24274	22	20.831	15.805	24346	10	15.194	16.165	24418	23	8.960	17.980
24131	17	12.398	14.960	24203	17	4.607	15.336	24275	37	20.850	15.472	24347	13	15.245	16.760	24419	10	9.191	17.744
24132	17	12.460	14.670	24204*	52	5.344	15.477	24276	14	21.496	15.204	24348	14	15.448	16.110	24420*	54	9.710	17.040
24133	17	12.820	14.122	24205	19	5.977	15.766	24277	10	21.541	15.438	24349	40	15.942	16.932	24421	24	9.830	17.805
24134	16	12.950	14.865	24206	17	6.322	15.998	24278	12	21.654	15.825	24350	38	16.442	16.494	24422	12	10.151	17.288
24135	13	12.998	14.469	24207	14	6.424	15.110	24279	22	21.785	15.233	24351	11	16.890	16.360	24423	12	10.260	17.690
24136	14	13.180	14.206	24208	14	6.993	15.436	24280	17	21.962	15.082	24352	15	17.196	16.416	24424	12	10.335	17.110
24137	12	13.564	14.385	24209	10	7.489	15.534	24281	12	22.080	15.438	24353	15	17.626	16.750	24425	15	10.338	17.473
24138	19	13.824	14.996	24210	22	8.160	15.234	24282	25	22.610	15.400	24354	14	17.925	16.055	24426	26	10.357	17.090
24139	12	14.050	14.419	24211	32	8.282	15.078	24283	42	22.842	15.524	24355	16	18.266	16.945	24427	13	10.438	17.201
24140	28	14.165	14.604	24212	15	8.356	15.290	24284	14	22.897	15.798	24356	13	18.792	16.203	24428	14	10.440	17.814
24141	14	14.360	14.374	24213	20	8.405	15.880	24285	12	23.035	15.344	24357	11	19.156	16.776	24429	12	10.782	17.817
24142	32	14.472	14.222	24214	11	8.740	15.102	24286	13	23.650	15.286	24358	15	19.204	16.121	24430	18	10.822	17.174
24143	10	14.556	14.738	24215	13	8.810	15.948	24287*	40	23.935	15.848	24359	15	19.596	16.812	24431	10	10.934	17.756
24144	35	14.704	14.485	24216	11	9.028	15.099	24288	38	24.020	15.650	24360*	52	20.108	16.410	24432	25	11.985	17.910
24145	14	14.732	14.931	24217	13	9.400	15.860	24289	15	24.338	15.098	24361	13	20.180	15.798	24433	35	12.254	17.486
24146	20	15.410	14.206	24218*	58	9.793	15.632	24290	14	24.401	15.736	24362	17	20.230	16.754	24434	14	12.500	17.896
24147	12	15.895	14.103	24219	18	9.904	15.886	24291	19	25.240	15.714	24363	21	20.488	16.852	24435	17	12.768	17.677
24148	36	16.546	14.290	24220	20	10.286	15.228	24292	14	25.374	15.224	24364	11	20.644	16.969	24436	14	13.290	17.617
24149	36	16.752	14.820	24221	40	10.484	15.830	24293	22	25.414	15.651	24365	24	20.702	16.				



24448	13	17 710	17 689	24520	42	16 524	18 747	24592	17	8-930	19 544	24664	25	3 307	20-070	24731	22	18 301	20-900
24449	25	18 050	17-920	24521	26	16 939	18-155	24593	30	9-246	19 920	24665	13	3 610	20-825	24737	21	18-870	20-706
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24463	10	22-220	17 324	24535	25	19-280	18-178	24607	14	13-520	19 966	24679	14	7-890	20-405	24751	38	21 201	20-122
24464	18	22-230	17 800	24536	14	19 318	18 398	24608	14	14-455	19-508	24680	17	8-218	20-860	24752	35	21-338	20-655
24465	13	22 616	17 994	24537	12	19 444	18 190	24609	30	14-753	19-370	24681	17	8-530	20-824	24753	31	21-423	20 580
24466	26	22-985	17-948	24538	16	19 950	18 826	24610	12	15 342	19-932	24682	13	8-547	20-135	24754	32	21-777	20-801
24467	17	23-088	17-249	24539	11	20 230	18-749	24611	15	15-398	19 160	24683	23	8-856	20 124	24755	32	22 130	20-032
24468	37	23 294	17 993	24540	20	20 318	18-819	24612	13	15 702	19-925	24684	10	8-926	20-698	24756	20	22 305	20-977
24469	14	23 394	17 386	24541	12	20-500	18-481	24613	20	15-778	19-092	24685	14	8-951	20 400	24757	15	22-475	20-242
24470*	62	23-512	17 135	24542	18	20 530	18-282	24614	24	16 358	19-589	24686	12	10-795	20-828	24758	16	22-766	20-040
24471	12	23-746	17-478	24543	38	20 652	18-287	24615	12	16-390	19 885	24687	10	10 973	20 936	24759	16	22-784	20-160
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24473	11	24 754	17 210	24545	35	21 386	18-712	24617	12	16 808	19-626	24689	37	11-096	20 750	24761	24	23-286	20-962
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24478	20	1-274	18 699	24550	14	22-360	18-635	24622	12	18 284	19 774	24694	25	11 304	20 690	24766	27	23-874	20-489
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24481	16	2-274	18 610	24553	12	24 486	18-483	24625	12	18 916	19 195	24697	12	11-765	20-868	24769	12	25-054	20-716
24482	18	3-600	18-828	24554	20	24-630	18-641	24626	13	18-922	19 775	24698	15	11-790	20-170	24770	14	25-163	20-984
24483	25	3-650	18-646	24555	26	24-821	18-805	24627	36	19-097	19-102	24699	35	12-070	20-810	24771	18	25 310	20-348
24484	19	3 756	18 880	24556	14	24-889	18-394	24628	24	19 037	19-524	24700	14	12 370	20 640	24772	20	25 393	20-570
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24497	17	8-040	18 286	24569	11	2-700	19-970	24641	18	21-130	19-164	24713	12	12 730	20-262	24785	15	1-735	21-504
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24501	20	9-616	18-564	24573	28	3-657	19-860	24645	23	22-538	19-566	24717	12	13-100	20-108	24789	10	3-300	21-104
24502	10	10-400	18-558	24574	20	3 814	19-025	24646	12	22 726	19-613	24718	12	13-404	20-583	24790	26	4-035	21-540
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24505	15	11-240	18 910	24577	20	4-997	19-996	24649	12	23-550	19-290	24721	11	14-616	20-490	24793	30	4-876	21-083
24506	20	11-242	18-030	24578	20	5-015	19-773	24650	20	23-986	19-522	24722	13	15-130	20-988	24794	16	5 513	21-780
24507	33	11 312	18-405	24579	10	5-196	19-765	24651	34	24-171	19-606	24723	25	15-290	20-612	24795	20	5-520	21-210
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24808	14	9.940	21 030	24880	19	3 330	22 303	24952	12	25.400	22 220	25024	13	21.692	23 224	25096	22	21 440	24 757
24809	45	10 054	21.468	24881	15	3 677	22 852	24953	12	0 140	23 065	25025	12	22.100	23.290	25097	23	21 510	24.033
24810	17	10 100	21 754	24882	13	3 725	22 580	24954	13	0.295	23 060	25026	11	22.496	23 961	25098	25	23 271	24.922
24811	14	10 265	21 745	24883	18	3 760	22.520	24955	14	0 380	23 632	25027	14	22.704	23.470	25099	12	24.321	24 040
24812	19	10.420	21 780	24884	12	3 854	22.156	24956	14	0 484	23 252	25028	47	23.013	23 601	25100	14	24 625	24 087
24813	20	10.476	21.425	24885	15	3 944	22.107	24957	40	0.630	23 925	25029	12	23 050	23 970	25101	11	25 547	24.220
24814	14	10.871	21.405	24886	40	5.112	22 896	24958	13	1.175	23 262	25030	14	23 261	23.766	25102	24	25.936	24 651
24815	35	10.993	21 608	24887	15	5 300	22 854	24959	15	1 198	23 826	25031	12	23.680	23 877	25103	42	0.328	25.442
24816	19	11 082	21 745	24888	18	5 300	22 690	24960	20	1 270	23.541	25032	22	23 908	23.892	25104	14	1.050	25 874
24817	14	12 120	21 130	24889	25	6 215	22.290	24961	18	1 496	23.344	25033	16	24 054	23 856	25105	13	1.425	25.634
24818	24	12 435	21.509	24890	15	6.280	22 698	24962	12	1.635	23.262	25034	27	24 514	23 240	25106	22	1.736	25.320
24819	16	12 610	21 122	24891	14	6 534	22 218	24963	35	1.963	23.890	25035	29	25 190	23 682	25107	42	1 794	25.876
24820	16	12 630	21 868	24892	17	6.602	22.179	24964	54	2.000	23 751	25036	42	25.315	23 556	25108	12	1 860	25 064
24821	19	12 757	21.150	24893	22	7 254	22.680	24965	13	2.278	23 826	25037	11	25 769	23 216	25109	36	1 895	25 825
24822	39	13.349	21 760	24894	40	7.308	22.891	24966	12	2.748	23 812	25038	26	0 406	24.991	25110	45	2 165	25.320
24823	15	13.362	21 672	24895	22	7.465	22 006	24967	18	3.410	23 396	25039	24	1.242	24.525	25111	52	2.521	25.356
24824	13	13 618	21.584	24896	11	7.514	22.775	24968	12	3.882	23 544	25040	13	1 686	24.525	25112	58	2 738	25.306
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24826	18	14.834	21.729	24898	20	7.692	22.317	24970	14	4.348	23.110	25042	20	2.460	24 720	25114	15	3 330	25.626
24827	20	14.836	21 720	24899	14	7.714	22 791	24971	35	4.742	23 775	25043	33	2 816	24 326	25115	25	3.628	25.459
24828	27	14 860	21.423	24900	14	7 728	22 302	24972	20	5 330	23.280	25044	15	2.880	24.234	25116	20	4.000	25 660
24829	24	15 400	21.460	24901	17	7 944	22.313	24973	15	5 580	23.078	25045	13	3.408	24 365	25117	28	4.944	25.595
24830	20	15.501	21.945	24902	13	8 077	22 364	24974	17	5 900	23 230	25046	20	3 562	24 821	25118	35	5 106	25.524
24831	40	15.780	21 642	24903	11	8 144	22 412	24975	12	6 604	23.547	25047	46	3.836	24 535	25119	13	5.169	25.870
24832	21	15.881	21 148	24904	20	9 352	22 517	24976	12	6.756	23 487	25048	15	4.784	24.066	25120	15	5.634	25.798
24833	12	16 140	21.794	24905	25	9 848	22.660	24977	24	6 825	23 986	25049	12	4.802	24.258	25121	13	5.694	25.651
24834	20	16.246	21.312	24906	15	10.307	22.520	24978	11	6 844	23.743	25050	40	4.995	24 008	25122	12	6 664	25 974
24835	31	16.476	21.190	24907	100	10 406	22 596	24979	34	6.957	23 795	25051	30	6.516	24.499	25123	36	7.944	25.854
24836	12	17.212	21.872	24908	13	10 408	22.035	24980	38	7.136	23.736	25052	35	6.546	24 550	25124	36	8.102	25.130
24837	34	17.740	21.919	24909	55	10.850	22.069	24981	41	7.470	23.264	25053	12	6 911	24 748	25125	23	8.865	25.739
24838	20	18.139	21.184	24910	32	10 891	22.104	24982	15	7.510	23.522	25054	52	6 984	24.908	25126	13	9.275	25.144
24839	16	18.390	21.423	24911	13	10.986	22 528	24983	24	7.640	23.884	25055	20	7.035	24.085	25127	22	9.578	25.630
24840	13	18 504	21.145	24912	18	11 262	22.565	24984	22	7.663	23 847	25056	16	7.185	24.695	25128	16	9.606	25.080
24841	13	19 244	21 048	24913	24	11.470	22.500	24985	21	7.856	23 653	25057	14	7 532	24 653	25129	19	9.670	25.874
24842	40	19 907	21 780	24914	12	11.692	22.180	24986	33	7.902	23 157	25058	20	8.221	24.988	25130	24	9 942	25.058
24843	40	20.114	21 292	24915	10	12.595	22.719	24987	17	7.950	23.880	25059	14	9.090	24.236	25131	14	10.152	25.506
24844	14	20 403	21.778	24916	11	12 848	22.870	24988	22	8.525	23 934	25060	17	9 746	24.647	25132	22	10.202	25.821
24845	18	20 410	21.048	24917	61	13 270	22.968	24989	18	8.580	23.102	25061	26	10.832	24.968	25133	18	10.333	25.003
24846	14	20 420	21.735	24918	28	13.487	22.615	24990	22	8.622	23 003	25062	14	10.941	24.100	25134	26	10.794	25.198
24847	20	21.205	21.802	24919	12	14.046	22.492	24991	14	8.795	23 550	25063	20	11.124	24.980	25135	19	10.902	25 806
24848	16	21.521	21.944	24920	16	14 504	22.699	24992	20	9 452	23 619	25064	21	11.432	24.020	25136	12	11.094	25.422
24849	16	22.147	21.935	24921	10	14.806	22 774	24993	25	9.484	23.384	25065	22	12.218	24 448	25137	11	11.331	25.233
24850	25	22.240	21.818	24922	13	15.132	22.492	24994	18	9.542	23.307	25066	21	12.225	24.410	25138	40	11.440	25.930
24851	23	22 292	21.046	24923	32	15.384	22.022	24995	23	9.608	23.388	25067	20	12.664	24.290	25139	12	11 500	25.016
24852	12	22 382	21.228	24924	17	16.064	22.128	24996	16	10.970	23.040	25068	27	12.960	24.710	25140	20	11 980	25.584
24853	12	22 564	21.430	24925	12	16.065	22.342	24997	35	12.547	23.398	25069	40	13 006	24.845	25141	24	12.735	25.920
24854	13	23 044	21 617	24926	12	16.587	22.553	24998	18	12.602	23.010	25070	16	13.340	24.620	25142	39	12 735	25.350
24855	24	23.143	21.019	24927	14	16.916	22.289	24999	21	12.746	23.115	25071	22	13.400	24.864	25143	16	12.802	25.367
24856	20	23.320	21.520	24928	22	17.122	22 158	25000	14	12.850	23.992	25072	19	13.506	24.828	25144	11	13 218	25.694
24857	14	23.370	21.718	24929	20	17.272	22.960	25001	24	12.888	23 935	25073	12	13.698	24.752	25145	21	13.403	25.040
24858	18	23.400	21 870	24930	30	17.720	22.462	25002	12	12.896	23.734	25074	12	14.186	24.780	25146	11	15.086	25.338
24859	26	24.237	21.470	24931	14	18.330	22.882	25003	21	13.013	23.665	25075	12	14.240	24.230	25147	22	18.222	25.260
24860	20	24.315	21.060	24932	15	18.656	22.252	25004	29	13 690	23 609	25076	20	14.287	24.549	25148	19	18.435	25.044
24861	29	24.564	21.627	24933	32	18 790	22.576	25005	21	14 355	23.390	25077	26	14 891	24.555	25149	14	18 600	25.012
24862	22	24.624	21.673	24934	11	19.312	22.668	25006	39	14.438	23.365	25078	23	14.930	24.200	25150	17	19 104	25.257
24863	11	24.900	21.202	24935	18	19 460	22.593	25007	24	14.440	23.480	25079	13	15.045	24.845	25151	34	19.247	25.810
24864	13	25.274	21.764	24936	34	19.632	22.394	25008	36	14.518	23.718	25080	14	15.162	24.513	25152	14	19.568	25.911
24865	28	25.516	21.378	24937	14	19.685	22.246	25009	30	14 656	23.615	25081	12	15.326	24.870	25153	44	20.540	25.776
24866	38	25.550	21.364	24938	40	19.930	22.735	25010	14	14.674	23.784	25082	10	16.165	24.955	25154	22	20.566	25.142
24867	12	25.875	21.934	24939	23	20.110	22.265	25011	19	16.155	23.710	25083	20	16.655	24.624	25155	18	20.906	25.430
24868	25	0.136	22.536	24940	13	20.194	22.378	25012	30	16 786	23.328	25084	12	16.956	24.922	25156	60	21.029	25.569
24869	20	0.376	22.759	24941	18	20.654	22.844	25013	13	16.978	23.483	25085	26	17.215	24.193				



R.A. 7<sup>h</sup> 24<sup>m</sup>

Plate 1544, 1920 Jan. 21

Provisional Constants

A

B

C

-01754 +00387 -1769

D

E

F

-00412 -01754 -2352

Mag. = 16.8 - 1.05√d

No.	d	x	y
25201*	65	0.167	0.773
25202	11	1.140	0.862
25203	10	1.258	0.926
25204	30	1.466	0.608
25205	10	1.555	0.856
25206	23	2.836	0.374
25207	30	3.120	0.870
25208	26	3.329	0.578
25209	11	3.460	0.450
25210	12	3.594	0.872
25211	34	4.592	0.680
25212	13	5.380	0.082
25213	10	5.400	0.842
25214	12	5.760	0.883
25215	22	5.782	0.028
25216	44	6.522	0.354
25217	15	6.576	0.166
25218	14	6.582	0.858
25219	33	6.724	0.918
25220	31	7.828	0.642
25221	24	7.859	0.754
25222	15	8.042	0.625
25223	32	9.540	0.180
25224	10	9.626	0.705
25225	10	10.068	0.870
25226*	60	10.703	0.072
25227	40	10.826	0.460
25228*	52	11.094	0.764
25229*	48	11.178	0.453
25230	29	11.283	0.070
25231	28	11.376	0.705
25232	18	11.720	0.112
25233	33	12.154	0.470
25234	16	12.200	0.421
25235	10	12.243	0.208
25236	10	12.661	0.352
25237	13	12.830	0.334
25238	30	12.884	0.498
25239	28	13.284	0.500
25240	15	13.313	0.467
25241	16	13.848	0.520
25242	15	13.924	0.195
25243*	66	14.280	0.172
25244	10	14.648	0.569
25245	18	14.800	0.686
25246	34	15.380	0.438
25247	34	16.599	0.160
25248	26	16.692	0.585
25249	34	17.226	0.012
25250	12	17.720	0.420
25251	26	17.806	0.221
25252	24	18.409	0.850
25253	18	18.722	0.032
25254	14	19.880	0.180
25255	10	19.883	0.520
25256	17	19.930	0.902
25257	22	20.244	0.907
25258	37	20.248	0.556
25259	16	20.498	0.134
25260	15	20.516	0.260
25261	21	23.066	0.680
25262	12	23.764	0.238
25263	14	24.342	0.434
25264	15	24.963	0.931
25265	15	25.541	0.560
25266	13	25.710	0.176
25267	18	0.213	1.734
25268	24	0.435	1.330
25269	11	0.563	1.956
25270	31	1.093	1.034
25271	12	1.355	1.416
25272	40	1.536	1.096
25273	23	1.848	1.451
25274	12	2.096	1.318
25275	11	2.536	1.262
25276	13	3.130	1.946
25277	16	3.424	1.042
25278	32	4.162	1.552
25279	15	4.910	1.394
25280	45	5.950	1.430
25281	15	6.276	1.034
25282	10	6.362	1.197
25283	29	6.772	1.778
25284	15	7.166	1.158
25285	40	7.625	1.850
25286	16	7.680	1.146
25287	10	7.682	1.241
25288	12	8.250	1.000
25289	21	8.809	1.979
25290	11	8.933	1.182
25291	34	9.132	1.954
25292	32	9.398	1.941
25293	14	9.399	1.666
25294	34	9.881	1.631
25295	12	10.044	1.168
25296	15	10.306	1.952
25297	10	10.399	1.613
25298	17	10.493	1.090
25299	14	10.657	1.992
25300	20	11.964	1.635
25301	19	12.400	1.652
25302	27	12.586	1.414
25303	11	12.697	1.480
25304	12	12.724	1.792
25305	18	12.779	1.800
25306	10	12.797	1.673
25307	10	13.050	1.706
25308	33	14.434	1.873
25309	13	15.020	1.056
25310*	48	15.719	1.904
25311	22	16.389	1.797
25312	30	16.537	1.586
25313	20	17.311	1.708
25314	22	18.066	1.828
25315	29	19.030	1.600
25316	36	19.112	1.968
25317	28	19.336	1.654
25318	22	19.725	1.492
25319	23	20.386	1.148
25320	14	20.474	1.203
25321	10	20.512	1.887
25322	15	20.901	1.672
25323	36	21.337	1.766
25324	27	21.608	1.217
25325	30	22.452	1.838
25326	17	23.036	1.890
25327	10	23.835	1.172
25328	10	25.322	1.356
25329	32	0.040	2.201
25330	33	0.248	2.883
25331	32	0.665	2.666
25332	10	0.920	2.970
25333	20	1.584	2.020
25334	13	1.820	2.398
25335	28	2.080	2.320
25336	15	2.171	2.282
25337	35	2.225	2.773
25338	38	2.363	2.226
25339	30	2.465	2.982
25340	14	3.154	2.002
25341	18	3.245	2.362
25342	31	3.364	2.400
25343	43	3.592	2.735
25344	10	3.777	2.411
25345	13	4.047	2.951
25346	10	4.312	3.140
25347	20	4.322	2.311
25348	10	4.480	2.755
25349	32	4.534	2.622
25350	34	4.795	2.382
25351	24	4.978	2.789
25352	32	5.502	2.347
25353	35	5.510	2.365
25354	36	5.550	2.484
25355	13	5.980	2.650
25356	14	6.498	2.763
25357	11	6.984	2.182
25358	21	7.109	2.236
25359	19	7.734	2.434
25360	25	7.766	2.741
25361	17	8.447	2.510
25362	19	8.516	2.635
25363	12	9.164	2.101
25364	12	9.970	2.788
25365	18	10.588	2.002
25366	14	10.751	2.184
25367	12	11.091	2.920
25368	25	11.303	2.274
25369	24	11.357	2.788
25370	12	11.408	2.620
25371	13	11.443	2.518
25372	30	11.488	2.120
25373	29	12.846	2.108
25374	33	12.950	2.939
25375	11	13.393	2.514
25376	23	13.590	2.175
25377	21	13.816	2.514
25378	32	13.934	2.150
25379	15	13.990	2.337
25380	10	14.148	2.630
25381	21	14.202	2.659
25382	27	14.284	2.260
25383	15	14.369	2.488
25384	23	14.412	2.448
25385	17	14.550	2.660
25386	29	14.614	2.330
25387	12	14.750	2.749
25388	22	15.258	2.123
25389	11	15.540	2.550
25390	26	18.461	2.706
25391	27	18.512	2.828
25392	11	20.217	2.447
25393	12	20.218	2.747
25394	26	21.243	2.040
25395	17	21.264	2.770
25396	19	21.312	2.325
25397	25	22.120	2.878
25398	31	22.796	2.264
25399	32	22.954	2.718
25400	29	23.401	2.408
25401	10	25.855	2.856
25402	28	0.046	3.866
25403	13	0.723	3.372
25404	10	0.990	3.490
25405	19	0.994	3.824
25406	10	1.053	3.788
25407	18	1.824	3.748
25408	40	2.019	3.142
25409	24	2.090	3.840
25410	13	2.594	3.906
25411	12	2.628	3.538
25412	32	3.600	3.872
25413	26	3.648	3.098
25414	27	3.650	3.572
25415	11	3.808	3.890
25416	13	3.817	3.420
25417	18	4.010	3.146
25418	42	4.606	3.325
25419	27	4.905	3.675
25420	27	4.958	3.129
25421	36	5.065	3.258
25422	10	5.382	3.853
25423	33	5.806	3.510
25424	40	6.332	3.296
25425*	63	6.642	3.128
25426	12	6.880	3.280
25427	22	7.196	3.824
25428	28	7.304	3.922
25429	27	7.382	3.481
25430	15	7.909	3.018
25431	29	8.134	3.420
25432	12	8.330	3.406
25433	33	8.663	3.718
25434	28	9.020	3.049
25435	37	9.211	3.060
25436	31	10.069	3.716
25437	31	10.128	3.388
25438	14	10.330	3.810
25439	12	10.516	3.151
25440	10	11.762	3.698
25441	13	11.916	3.903
25442	16	11.959	3.225
25443	23	12.293	3.498
25444	30	12.810	3.752
25445	13	13.160	3.273
25446	21	13.778	3.528
25447	11	13.831	3.906
25448	12	14.446	3.780
25449	34	14.832	3.074
25450	21	15.125	3.289
25451	20	15.234	3.564
25452	35	15.510	3.372
25453	20	15.590	3.844
25454	12	15.659	3.809
25455	11	15.791	3.090
25456	14	16.285	3.220
25457	11	16.470	3.302
25458	16	16.821	3.453
25459	12	17.061	3.056
25460	10	17.374	3.268
25461	13	17.422	3.170
25462	40	17.490	3.982
25463	35	17.546	3.790
25464	12	17.755	3.295
25465	30	18.037	3.520
25466	17	18.190	3.174
25467	43	19.050	3.800
25468	18	19.239	3.604
25469	13	19.380	3.114
25470	10	19.642	3.620
25471	20	19.650	3.722
25472	21	20.571	3.940
25473	29	20.605	3.105
25474	21	21.002	3.650
25475	40	21.728	3.842
25476	11	22.052	3.728
25477	21	22.157	3.462
25478	10	24.722	3.436
25479	36	24.724	3.320
25480	43	24.906	3.935
25481	10	25.438	3.550
25482	21	0.001	4.345
25483	13	0.146	4.845
25484	24	0.154	4.894
25485	29	0.196	4.862
25486	37	0.968	4.970
25487	37	2.345	4.760
25488	10	2.496	4.858
25489	18	3.498	4.918
25490	30	4.180	4.211
25491	10	4.953	4.810
25492	11	5.284	4.641
25493	40	5.336	4.458
25494	34	6.010	



25544	20	25.402	4 150	25616	19	23 418	5.914	25688	19	20 603	6 886	25760	30	14.030	7.450	25832	24	8.938	8 440
25545	25	25.445	4.609	25617	14	24 251	5 860	25689	40	20 800	6 978	25761	11	14.926	7.930	25833	14	8 944	8.210
25546	10	1 622	5 237	25618	11	24 437	5.308	25690	12	20 995	6 950	25762	12	14.927	7 126	25834*	42	8 950	8 994
25547	35	1 724	5 212	25619	10	24 456	5 930	25691	14	21 370	6.323	25763	23	14.974	7 274	25835	12	9 014	8.309
25548	13	1 991	5.162	25620	31	24 522	5.888	25692	18	22.750	6 398	25764	11	15.020	7 510	25836	26	9.286	8.843
25549	42	2 096	5.541	25621	30	24.834	5.714	25693	38	22 840	6 826	25765	13	15.268	7.310	25837	27	9 316	8 956
25550	11	2 795	5 124	25622	23	24 939	5.792	25694	29	24 763	6 659	25766	27	15 275	7.218	25838	11	9 826	8.920
25551	35	3 280	5 133	25623	14	24.958	5 496	25695	33	24 776	6 136	25767	13	15.536	7 208	25839	26	9.926	8 646
25552	36	3.378	5.516	25624	35	25.940	5 650	25696	19	24 920	6 150	25768	25	15.810	7.758	25840	31	10.361	8.550
25553	12	3.470	5 609	25625*	62	0 370	6 862	25697	20	25 165	6 254	25769	15	15.924	7.800	25841	10	10.564	8.560
25554	19	3.650	5.073	25626	11	0 858	6.510	25698	41	25.684	6.660	25770	15	16 154	7.325	25842	11	10.573	8.578
25555	11	4 024	5 150	25627	12	0 862	6.144	25699	58	25.944	6 454	25771	12	16 288	7 204	25843	10	11 139	8 880
25556	35	4.717	5 536	25628	31	0 875	6 720	25700	10	0.620	7.234	25772	12	16.610	7.608	25844	30	11.144	8.700
25557	18	5.601	5.594	25629	31	1.299	6.068	25701	34	1 165	7 809	25773	15	16.676	7.194	25845	15	11.546	8 928
25558	19	5 630	5 653	25630	10	1.474	6.736	25702	31	1 856	7 293	25774	29	16.685	7.886	25846	21	13.109	8 910
25559	16	6.408	5.508	25631	14	1 834	6.996	25703	14	2 074	7.504	25775*	43	17.048	7.639	25847	20	13 142	8 576
25560	18	6.767	5 921	25632	38	1.970	6 054	25704	11	2 157	7 309	25776	22	17.480	7 510	25848	35	13 274	8.824
25561	15	6.943	5 098	25633*	46	2 632	6.848	25705	31	2 399	7 086	25777	34	17.540	7 600	25849	10	13.280	8.288
25562	32	7.212	5 379	25634	23	3 141	6.485	25706	28	2.420	7 141	25778	21	17.742	7.818	25850	25	13.405	8.592
25563	18	7.528	5 504	25635	27	3.540	6.752	25707	32	2.484	7 102	25779*	80	18.447	7.750	25851	27	13.546	8 047
25564	42	8.278	5 534	25636	34	3.914	6.073	25708*	40	2.552	7 770	25780	35	18.454	7 370	25852	13	13 639	8.496
25565	10	9.190	5.786	25637	39	4 292	6 222	25709	13	3.118	7 596	25781	12	18.460	7.266	25853	35	13.650	8 298
25566	41	9.614	5.665	25638	12	4 345	6.320	25710	33	3.532	7.777	25782	14	18 473	7.048	25854	11	13.850	8.288
25567	23	9.655	5 952	25639	12	5 524	6.838	25711	14	4.444	7 880	25783	10	18.661	7.928	25855	14	14.175	8.604
25568	27	9.710	5.516	25640	34	5 662	6.408	25712	27	4 662	7.257	25784	10	18.722	7.962	25856	20	14.408	8 386
25569	35	9.904	5.775	25641	34	5.936	6 578	25713	10	4 860	7.864	25785	29	19.758	7.544	25857	13	14.458	8.649
25570	21	10.633	5.793	25642	12	6.152	6.424	25714	16	4 989	7 698	25786	41	21.014	7.031	25858	11	14.517	8 492
25571	26	10.900	5.196	25643	14	6.303	6.346	25715	39	5 030	7 295	25787	18	21 226	7.329	25859	43	14.562	8.564
25572	30	10.915	5 271	25644	18	6.336	6.357	25716	11	5.446	7 624	25788	11	21.353	7.020	25860	12	14.730	8.076
25573	15	11 150	5.058	25645	32	6 472	6.384	25717	11	5.564	7.309	25789	10	24.128	7.693	25861	10	14.859	8.576
25574	21	11.208	5.167	25646	29	6 993	6.912	25718	26	5.590	7.644	25790	41	24.460	7.028	25862	10	14.976	8 602
25575	11	11.326	5.247	25647	12	7.214	6.422	25719	17	5 974	7.889	25791	33	24.510	7.381	25863	31	15.082	8 984
25576	11	11 802	5 532	25648	39	7 262	6 920	25720	22	6.258	7.850	25792*	54	24 854	7.514	25864	12	15.230	8.798
25577	10	11 890	5 660	25649	12	7.537	6 886	25721	25	6 568	7.906	25793	10	25.040	7.582	25865	17	15.462	8.464
25578	15	12.275	5 254	25650	28	7.756	6.958	25722	22	6.576	7.292	25794	13	25 291	7.666	25866	21	15.636	8.388
25579	12	12.735	5.334	25651	12	7 814	6.588	25723	31	6 762	7.702	25795	12	25.796	7.755	25867	22	15.648	8 698
25580	32	13.022	5.446	25652	10	7.945	6 793	25724	14	6 820	7 562	25796	11	25.814	7 489	25868	10	15.704	8.767
25581*	47	13 593	5.910	25653	38	7.989	6 654	25725	16	6.828	7 087	25797	11	25.992	7 358	25869	26	15.822	8 859
25582	12	14 245	5 658	25654	40	8.126	6 870	25726	34	7.109	7.431	25798	11	0.286	8.706	25870	39	16 026	8.066
25583	39	14.448	5.724	25655	35	8.431	6.636	25727	27	7.116	7 640	25799	10	0.609	8 406	25871	10	17.370	8 097
25584	10	14.655	5 392	25656	33	8 778	6.972	25728	24	7.154	7.352	25800	13	0.714	8.712	25872	13	17.480	8.058
25585	13	14.658	5.168	25657	11	9 150	6.869	25729	25	7.489	7 408	25801	28	0 964	8.220	25873	27	17.482	8.959
25586	12	14.816	5 572	25658	24	9.452	6.610	25730	19	7.489	7 746	25802	14	1.060	8 652	25874	10	17 790	8.029
25587	12	14.851	5.154	25659	32	10.341	6 270	25731	23	7.674	7.018	25803	14	1.298	8.267	25875	11	18.040	8.694
25588	24	14 961	5.904	25660	33	10 835	6 524	25732	10	7.890	7.142	25804	38	1.337	8 260	25876	14	18.370	8.094
25589	34	15.228	5.860	25661	12	10.921	6.016	25733	23	8.114	7.828	25805	35	1.540	8 774	25877	18	18.474	8.589
25590	28	15.776	5 678	25662	10	11.214	6.256	25734	10	8.381	7 789	25806	19	1 573	8 302	25878	10	18 595	8.916
25591	28	15 984	5.082	25663	24	11.442	6.257	25735	12	8.634	7 193	25807	16	1.602	8 003	25879	26	18.675	8.310
25592	14	16.092	5.262	25664	10	11 630	6.960	25736	13	8.676	7.910	25808	13	1.820	8.512	25880	28	18 790	8.962
25593	32	16.234	5.860	25665	18	11 960	6.596	25737	31	9.630	7 118	25809	12	2.014	8 276	25881	12	18 960	8.195
25594	11	16.259	5.962	25666	23	12.005	6.458	25738	10	9.800	7.842	25810	12	2 086	8 617	25882	13	19.051	8.856
25595	10	16.652	5.648	25667	14	12 168	6.854	25739	12	9.861	7.258	25811	11	3.117	8.704	25883	15	19.359	8.983
25596	27	16.726	5.060	25668	30	12.540	6.600	25740	19	10.020	7.496	25812	23	3.950	8.497	25884	19	19.416	8 103
25597	21	17.074	5.797	25669	12	12 641	6.078	25741	12	10.076	7.230	25813	24	4.005	8.250	25885	15	20.040	8.772
25598	29	17.075	5.052	25670	10	12.838	6.121	25742*	39	10.165	7.611	25814	25	4.014	8.050	25886	10	20 918	8 506
25599	10	17.264	5.604	25671	10	13.302	6.207	25743*	36	10.227	7.551	25815	37	4 138	8.122	25887	36	21.376	8.666
25600	36	17.335	5.859	25672	34	13 492	6.544	25744	34	10.574	7.320	25816	26	4.800	8 594	25888	11	21.558	8.481
25601	11	17.466	5.534	25673	13	13.914	6.220	25745	20	10.675	7.030	25817	25	5.170	8.712	25889	36	21.914	8 127
25602	35	17.520	5.766	25674	27	13.991	6.091	25746	29	10.870	7.100	25818	42	5.888	8.918	25890	10	22.066	8 364
25603	10	17.876	5.539	25675	37	14.766	6.417	25747	13	11.299	7.274	25819	19	6.350	8.485	25891	27	22.990	8.119
25604	23	18.466	5.438	25676	10	14.998	6.264	25748	17	11.516	7.263	25820	17	6.441	8.736	25892	10	23.896	8.604
25605	31	18.795	5.690	25677	28	15.964	6.416	25749	33	11.780	7.461	25821	19	6.704	8.834	25893	32	24 024	8.477
25606	21	19.350	5.354	25678	27	16.310	6.232	25750	10	12.405	7.920	25822	13	6 848	8 411	25894*	48	24.893	8.892
25607	19	19.566	5.664	25679	12	16.422	6.814												



25904	20	1 165	9 721	25976	13	19 599	9 755	26048	11	12-190	10-099	26120	13	7 440	11-276	26192	12	6-990	12-391
25905	10	1-424	9 532	25977	10	19-616	9-964	26049	39	12-365	10-025	26121	17	7-680	11-852	26193	30	7-040	12-934
25906	19	1-426	9-035	25978	39	19 682	9-524	26050	13	12-522	10-245	26122	14	7-820	11-150	26194	15	7 089	12-312
25907	13	1-460	9-046	25979	14	19-878	9-785	26051	11	13-420	10-052	26123	20	8-186	11-040	26195	11	7-223	12-378
25908	19	1-562	9-845	25980	32	20-586	9-894	26052	21	13-594	10-017	26124	22	8-446	11-826	26196	29	7-246	12-030
25909	19	1-728	9-154	25981	23	21 110	9-001	26053	12	13-636	10-390	26125	32	8-678	11-437	26197	28	7-974	12-037
25910	18	1-842	9-446	25982	33	21 173	9-754	26054	12	13 604	10-460	26126	14	8-712	11 007	26198	24	8-102	12-668
25911	35	2-180	9 700	25983	17	21 235	9-728	26055	17	13-864	10 434	26127	17	8 799	11-947	26199	16	8-502	12-984
25912	14	2-314	9 623	25984	11	21 321	9 100	26056	20	14-178	10-934	26128	22	8 912	11 574	26200	12	8-802	12-574
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25914	14	2-503	9 736	25986	30	21-558	9 751	26058	18	15-031	10-548	26130	58	10-563	11 834	26202	14	9-049	12 113
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26265	37	5.186	13.980	26337	19	5.684	14.800	26409	14	5.280	15.765	26481	11	25.418	15.508	26553	23	22.426	16.604
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26270	37	6.916	13.937	26342	14	7.342	14.554	26414	25	6.520	15.748	26486	10	1.116	16.852	26558*	63	1.282	17.376
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26278	30	9.340	13.539	26350	13	8.591	14.070	26422	24	8.975	15.812	26494	26	4.000	16.003	26566	11	5.780	17.348
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26281	13	10.490	13.724	26353	11	9.222	14.778	26425	18	9.830	15.466	26497	10	5.055	16.633	26569	16	6.006	17.020
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26288	14	11.459	13.276	26360	10	11.802	14.232	26432	10	11.965	15.610	26504	34	6.361	16.418	26576	10	7.341	17.558
26289	13	12.934	13.542	26361	31	12.226	14.452	26433	21	12.188	15.812	26505	20	6.540	16.320	26577	36	7.396	17.006
26290	29	13.123	13.676	26362	37	12.314	14.383	26434	37	12.480	15.037	26506	11	6.808	16.142	26578	35	7.547	17.240
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26292	32	13.871	13.408	26364	21	12.540	14.813	26436	32	12.760	15.272	26508	33	7.486	16.140	26580	37	7.645	17.931
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26294	37	14.363	13.234	26366	16	13.822	14.002	26438	11	13.100	15.358	26510	12	7.958	16.658	26582	12	8.528	17.534
26295	27	14.364	13.746	26367	18	13.835	14.844	26439	10	13.374	15.526	26511	18	7.990	16.202	26583	16	8.529	17.101
26296	15	15.132	13.572	26368	13	14.288	14.552	26440	32	13.446	15.814	26512	11	8.136	16.826	26584	10	8.608	17.431
26297	12	15.424	13.796	26369*	46	14.718	14.638	26441	13	13.541	15.862	26513	16	8.148	16.956	26585	43	9.161	17.379
26298	19	15.811	13.856	26370	36	14.737	14.668	26442	36	13.774	15.338	26514	34	8.160	16.685	26586	10	9.878	17.388
26299	20	16.093	13.416	26371	22	15.422	14.998	26443	31	13.988	15.018	26515	24	8.254	16.098	26587	40	10.322	17.648
26300	32	16.096	13.956	26372	14	15.698	14.214	26444	11	14.404	15.993	26516	32	8.454	16.742	26588	12	10.676	17.390
26301	27	16.330	13.977	26373	12	16.330	14.228	26445	40	14.776	15.744	26517	10	8.470	16.258	26589	11	10.909	17.566
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26303	27	16.469	13.924	26375	31	17.965	14.280	26447	25	15.728	15.390	26519	29	8.670	16.459	26591	10	11.984	17.296
26304	28	16.800	13.704	26376	21	18.242	14.649	26448	36	16.198	15.428	26520	16	8.932	16.362	26592	13	12.142	17.493
26305	25	17.574	13.092	26377	11	21.094	14.686	26449	11	16.288	15.110	26521	36	9.018	16.054	26593	12	12.577	17.574
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26307	34	18.440	13.008	26379	15	22.418	14.458	26451	12	16.749	15.628	26523	13	9.280	16.846	26595	10	12.706	17.887
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26309	34	19.604	13.912	26381	10	22.898	14.485	26453	10	17.510	15.702	26525	23	10.702	16.522	26597	22	13.511	17.006
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26311	11	20.705	13.941	26383	16	23.315	14.350	26455	11	17.810	15.921	26527	18	11.892	16.030	26599	18	14.214	17.528
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26314	18	21.300	13.158	26386	21	24.118	14.671	26458	13	19.234	15.378	26530	31	12.385	16.688	26602	14	16.610	17.107
26315	38	21.692	13.380	26387	12	24.152	14.060	26459	38	20.879	15.024	26531	23	13.525	16.818	26603	24	17.043	17.829
26316	19	22.226	13.480	26388	10	24.412	14.547	26460	28	20.948	15.758	26532	11	14.091	16.145	26604	11	17.135	17.105
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26320	21	23.422	13.466	26392	38	0.078	15.250	26464	31	21.976	15.670	26536	32	15.964	16.524	26608	15	19.063	17.456
26321	29	23.722	13.316	26393	22	0.210	15.022	26465	32	22.019	15.734	26537	23	16.740	16.359	26609	22	19.409	17.002
26322	31	23.848	13.985	26394	26	0.369	15.651	26466	37	22.430	15.797	26538	35	16.768	16.594	26610	13	19.470	17.439
26323	10	25.340	13.854	26395	39	0.600	15.772	26467	30	22.508	15.130	26539	13	17.350	16.500	26611	16	19.580	17.490
26324	10	25.406	13.465	26396	15	1.489	15.093	26468	16	22.937	15.298	26540	15	18.136	16.872	26612	13	19.887	17.057
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26624	28	23.242	17.580	26606	12	22.999	18.326	26768	14	19.324	19.100	26840	18	13.348	20.987	26912	19	12.614	21.918
26625	17	24.180	17.580	26607	30	23.830	18.071	26769	70	19.395	19.556	26841	12	14.714	20.604	26913	19	12.634	21.437
26626	18	24.961	17.828	26608	11	24.397	18.067	26770	20	19.525	19.332	26842	25	15.026	20.353	26914	26	12.960	21.142
26627	13	25.126	17.012	26609	29	24.848	18.454	26771	40	19.832	19.134	26843	13	15.474	20.152	26915	16	13.132	21.742
26628	20	25.478	17.704	26700	18	25.050	18.766	26772	10	20.364	19.900	26844	70	15.651	20.296	26916	35	13.218	21.625
26629	11	0.046	18.904	26701	11	25.379	18.459	26773	12	20.553	19.853	26845	71	15.886	20.168	26917	64	13.567	21.435
26630	10	0.402	18.242	26702	10	0.284	19.686	26774	21	20.917	19.374	26846	34	16.033	20.621	26918	30	14.430	21.871
26631	27	0.766	18.196	26703	18	0.336	19.816	26775	14	20.960	19.551	26847	18	16.922	20.061	26919	36	14.949	21.655
26632	21	0.869	18.626	26704	19	1.782	19.760	26776	12	21.298	19.370	26848	34	17.880	20.850	26920	16	15.718	21.287
26633	40	1.074	18.238	26705	34	1.967	19.842	26777	18	21.301	19.387	26849	34	20.364	20.638	26921	12	15.727	21.918
26634	24	2.416	18.874	26706	29	2.611	19.036	26778	29	21.385	19.798	26850	53	20.600	20.448	26922	18	15.930	21.870
26635	14	3.636	18.856	26707	24	2.732	19.700	26779	34	21.418	19.738	26851	32	21.315	20.940	26923	19	15.958	21.254
26636	23	4.106	18.572	26708	15	3.370	19.343	26780	23	21.514	19.792	26852	20	21.520	20.781	26924	10	16.080	21.708
26637	34	4.128	18.521	26709	12	3.852	19.524	26781	26	21.674	19.182	26853	10	21.576	20.823	26925	12	16.786	21.110
26638	27	4.322	18.108	26710	20	4.134	19.900	26782	10	22.274	19.124	26854	24	21.615	20.006	26926	31	16.874	21.414
26639	31	4.573	18.767	26711	38	4.624	19.999	26783	17	22.288	19.078	26855	12	21.706	20.190	26927	12	16.958	21.451
26640	24	4.728	18.546	26712	34	4.680	19.078	26784	18	22.799	19.348	26856	10	21.766	20.445	26928	16	18.475	21.891
26641	36	5.302	18.470	26713	32	4.864	19.024	26785	18	22.834	19.294	26857	32	22.719	20.800	26929	34	18.479	21.380
26642	29	5.473	18.330	26714	31	5.180	19.797	26786	34	23.074	19.748	26858	31	22.914	20.330	26930	37	19.355	21.992
26643	31	5.567	18.654	26715	20	5.908	19.378	26787	33	23.574	19.244	26859	33	23.558	20.398	26931	18	20.288	21.442
26644	15	5.586	18.328	26716	17	6.313	19.479	26788	22	24.154	19.400	26860	10	23.717	20.831	26932	14	21.354	21.700
26645	14	5.731	18.382	26717	16	6.380	19.557	26789	12	24.320	19.316	26861	18	24.036	20.890	26933	10	21.549	21.527
26646	21	5.792	18.496	26718	36	6.506	19.132	26790	33	24.582	19.927	26862	12	24.388	20.972	26934	27	21.890	21.805
26647	19	6.418	18.426	26719	17	6.536	19.118	26791	40	24.688	19.038	26863	30	24.394	20.357	26935	24	21.963	21.580
26648	23	6.424	18.390	26720	12	7.222	19.088	26792	13	25.195	19.580	26864	50	24.499	20.935	26936	12	22.067	21.726
26649	24	6.664	18.360	26721	12	7.664	19.550	26793	24	0.003	20.104	26865	23	24.526	20.531	26937	67	22.122	21.058
26650	25	7.026	18.428	26722	20	7.700	19.712	26794	10	0.586	20.406	26866	58	25.158	20.186	26938	19	23.059	21.030
26651	21	7.510	18.994	26723	27	7.790	19.572	26795	44	1.336	20.260	26867	10	25.472	20.199	26939	11	24.693	21.614
26652	12	7.816	18.232	26724	16	8.029	19.554	26796	28	1.678	20.726	26868	17	0.100	21.300	26940	23	25.088	21.458
26653	16	7.898	18.101	26725	10	8.390	19.906	26797	32	2.065	20.100	26869	15	0.118	21.230	26941	13	25.691	21.223
26654	21	8.100	18.350	26726	25	8.690	19.104	26798	10	2.224	20.793	26870	15	0.954	21.295	26942	17	25.790	21.444
26655	31	8.399	18.863	26727	27	8.820	19.041	26799	16	3.117	20.576	26871	26	1.097	21.206	26943	17	0.060	22.070
26656	10	8.442	18.586	26728	46	9.207	19.824	26800	27	3.200	20.794	26872	13	1.136	21.764	26944	14	1.500	22.762
26657	37	9.088	18.756	26729	22	9.380	19.817	26801	24	3.101	20.840	26873	12	1.209	21.230	26945	28	1.721	22.722
26658	12	9.338	18.849	26730	10	9.476	19.414	26802	18	3.180	20.718	26874	13	1.438	21.120	26946	36	2.482	22.674
26659	19	9.960	18.381	26731	27	10.245	19.959	26803	34	4.046	20.095	26875	15	1.980	21.087	26947	12	3.126	22.334
26660	19	10.115	18.400	26732	37	10.275	19.100	26804	12	4.331	20.608	26876	26	2.054	21.704	26948	14	5.056	22.396
26661	15	10.625	18.562	26733	33	10.485	19.334	26805	31	4.564	20.450	26877	23	2.125	21.296	26949	19	5.480	22.338
26662	28	12.326	18.054	26734	12	10.554	19.255	26806	13	4.866	20.659	26878	31	2.380	21.858	26950	28	6.110	22.329
26663	23	12.426	18.158	26735	13	10.840	19.913	26807	12	4.942	20.634	26879	26	2.440	21.909	26951	11	6.226	22.060
26664	30	12.548	18.818	26736	13	10.864	19.201	26808	51	5.055	20.878	26880	14	2.975	21.210	26952	15	6.542	22.008
26665	28	12.614	18.102	26737	10	11.159	19.860	26809	11	5.630	20.558	26881	29	3.430	21.600	26953	46	6.618	22.562
26666	14	13.141	18.736	26738	12	11.871	19.942	26810	37	5.735	20.144	26882	39	3.461	21.586	26954	28	6.810	22.823
26667	22	13.242	18.203	26739	20	11.947	19.554	26811	11	6.246	20.438	26883	16	4.541	21.208	26955	14	7.619	22.750
26668	12	13.325	18.632	26740	31	11.951	19.776	26812	22	6.450	20.238	26884	100	4.600	21.801	26956	13	7.725	22.977
26669	11	13.354	18.078	26741	18	11.960	19.636	26813	40	6.544	20.015	26885	24	4.884	21.818	26957	24	8.507	22.044
26670	28	14.212	18.634	26742	30	11.972	19.384	26814	12	6.870	20.332	26886	23	4.930	21.074	26958	32	8.659	22.496
26671	12	14.560	18.143	26743	13	12.088	19.417	26815	29	6.942	20.226	26887	23	5.170	21.034	26959	12	9.573	22.284
26672	30	14.676	18.409	26744	34	12.112	19.153	26816	35	7.112	20.001	26888	10	5.398	21.223	26960	10	10.108	22.184
26673	16	14.680	18.396	26745	31	12.942	19.502	26817	29	7.255	20.386	26889	39	5.796	21.969	26961	32	10.894	22.550
26674	23	15.082	18.958	26746	28	13.060	19.710	26818	10	7.472	20.308	26890	11	6.196	21.494	26962	10	11.534	22.524
26675	18	15.123	18.648	26747	48	13.740	19.558	26819	18	7.602	20.635	26891	17	6.608	21.518	26963	35	11.906	22.256
26676	20	15.372	18.832	26748	19	14.020	19.580	26820	10	7.782	20.120	26892	23	6.976	21.584	26964	30	11.926	22.248
26677	40	15.790	18.546	26749	32	14.700	19.288	26821	14	7.843	20.402	26893	35	7.078	21.096	26965	31	11.994	22.170
26678	39	15.986	18.654	26750	12	14.802	19.012	26822	13	8.322	20.358	26894	44	7.388	21.620	26966	12	12.110	22.018
26679	16	16.691	18.795	26751	34	14.970	19.150	26823	13	8.348	20.522	26895	12	7.716	21.239	26967	10	12.330	22.110
26680	10	17.296	18.637	26752	60	15.088	19.876	26824	30	8.571	20.162	26896	41	7.998	21.910	26968	33	12.830	22.986
26681	18	18.548	18.210	26753	29	15.318	19.036	26825	11	9.314	20.612	26897	13	8.133	21.176	26969	12	12.904	22.138
26682	11	18.576	18.749	26754	22	15.664	19.348	26826	19	10.080	20.600	26898	16	9.460	21.706	26970	32	13.237	22.716
26683	18	18.598	18.576	26755	12	16.381	19.068	26827	30	10.248	20.404	26899	23	9.924	21.035	26971	21	13.794	22.893
26684	18	18.710	18.344	26756	12	16.390	19.161	26828	30	10.435	20.870	26900	15	10.714	21.098	26972	30	14.356	22.920
26685	12	19.712	18.683	26757	17	16.574	19.346	26829	10	10.661	20.544	26901	30	10.749	21.820	26973	15</		



26984	15	18.600	22.055	27056	36	4.920	24.799	27128	36	10.150	25.623	27223	16	6.676	0.966	27295	20	3.950	1.850
26985	34	18.688	22.311	27057	30	5.444	24.716	27129	16	10.251	25.167	27224	14	6.826	0.782	27296	22	3.984	1.499
26986	11	18.938	22.070	27058	14	5.526	24.646	27130	18	10.718	25.078	27225	22	7.290	0.610	27297	48	4.272	1.250
26987	31	19.040	22.700	27059	10	6.272	24.793	27131	33	11.672	25.276	27226	12	7.291	0.170	27298	22	4.816	1.579
26988	13	19.239	22.772	27060	10	6.303	24.353	27132	15	11.772	25.392	27227	17	7.458	0.746	27299	24	5.019	1.312
26989	10	19.382	22.030	27061	34	6.387	24.042	27133	28	12.063	25.076	27228	17	7.698	0.617	27300	10	5.266	1.918
26990	26	19.534	22.339	27062*	62	6.892	24.540	27134	21	12.372	25.874	27229	24	8.000	0.458	27301	10	5.491	1.028
26991	14	19.612	22.969	27063	31	7.196	24.024	27135	23	12.464	25.760	27230	21	8.039	0.099	27302	22	6.193	1.621
26992	22	19.898	22.002	27064	30	7.330	24.750	27136	10	13.034	25.914	27231	40	8.423	0.092	27303	14	6.264	1.772
26993	38	20.020	22.904	27065	34	7.414	24.652	27137	28	13.082	25.026	27232	19	8.434	0.090	27304	9	6.407	1.414
26994	14	20.161	22.068	27066	38	7.495	24.099	27138	31	13.600	25.562	27233	17	8.566	0.024	27305	47	6.562	1.756
26995	15	20.170	22.404	27067*	45	8.464	24.523	27139	26	13.866	25.078	27234	24	8.628	0.152	27306	28	6.834	1.266
26996	10	20.810	22.541	27068	25	8.500	24.566	27140	33	14.645	25.309	27235	11	8.822	0.982	27307	39	6.904	1.282
26997	36	21.064	22.219	27069	33	8.535	24.546	27141	22	14.690	25.696	27236	14	8.824	0.852	27308	21	6.940	1.552
26998	30	21.759	22.222	27070	11	9.794	24.713	27142	30	16.121	25.792	27237	10	9.047	0.970	27309	26	6.946	1.492
26999	19	22.190	22.026	27071	11	10.164	24.226	27143	43	18.281	25.656	27238	42	9.048	0.655	27310	31	8.032	1.694
27000	13	22.290	22.598	27072	12	10.195	24.892	27144	20	18.468	25.106	27239	13	9.766	0.129	27311	31	8.216	1.093
27001	26	22.675	22.556	27073	23	10.446	24.161	27145	37	18.790	25.052	27240	27	9.819	0.072	27312	34	8.374	1.192
27002	38	23.440	22.091	27074	19	10.706	24.348	27146	10	21.536	25.164	27241	18	10.390	0.722	27313	27	8.548	1.561
27003	15	23.780	22.938	27075	44	10.761	24.066	27147	28	22.468	25.248	27242	14	10.656	0.112	27314	46	8.646	1.218
27004	28	23.782	22.636	27076	12	10.936	24.715	27148	13	23.264	25.469	27243	26	11.620	0.149	27315	34	9.792	1.658
27005	23	24.154	22.560	27077	25	10.966	24.446	27149	16	23.664	25.244	27244	12	12.332	0.922	27316	14	10.178	1.811
27006	22	24.476	22.660	27078	12	11.014	24.884	27150	17	23.715	25.220	27245	47	12.820	0.530	27317	14	10.208	1.448
27007	11	25.243	22.940	27079	12	11.954	24.297	27151	15	25.232	25.790	27246	31	12.940	0.428	27318	21	10.878	1.070
27008	45	0.846	23.848	27080	30	11.962	24.249	27152	75	25.470	25.128	27247	44	12.978	0.208	27319	11	11.074	1.508
27009	27	2.345	23.474	27081	27	12.069	24.882	27153	29	25.856	25.116	27248	31	13.420	0.040	27320*	47	11.881	1.301
27010	29	3.024	23.908	27082	12	12.184	24.999					27249	10	13.558	0.960	27321	27	12.118	1.732
27011	40	3.148	23.782	27083	15	12.329	24.092					27250	19	13.845	0.958	27322	14	12.175	1.870
27012	38	6.700	23.254	27084	10	12.610	24.502					27251	13	13.932	0.069	27323	19	12.445	1.998
27013	12	7.676	23.870	27085	32	12.872	24.668					27252	10	14.219	0.676	27324	11	12.635	1.822
27014	16	7.867	23.414	27086	12	13.250	24.405					27253	23	15.168	0.873	27325	13	12.768	1.733
27015	32	8.174	23.418	27087	11	13.398	24.376					27254	13	15.330	0.044	27326	20	13.242	1.700
27016	38	8.344	23.688	27088	34	13.684	24.536					27255	17	15.377	0.773	27327	19	13.502	1.936
27017	18	8.700	23.012	27089	15	13.860	24.985					27256	37	15.420	0.596	27328	37	13.508	1.462
27018	19	9.028	23.003	27090	10	13.970	24.560					27257	15	15.592	0.798	27329	14	14.198	1.990
27019	14	9.209	23.093	27091	13	14.208	24.046					27258	32	15.798	0.939	27330	43	14.221	1.828
27020	34	9.320	23.245	27092	19	14.253	24.362					27259	17	15.866	0.360	27331	32	14.310	1.120
27021	16	9.390	23.930	27093	13	14.658	24.728					27260	14	16.250	0.488	27332	45	14.324	1.132
27022	14	9.480	23.632	27094	12	15.130	24.680					27261	21	16.392	0.948	27333	18	14.589	1.494
27023	13	9.586	23.905	27095	10	15.604	24.361					27262	24	16.569	0.283	27334	24	14.613	1.160
27024	11	9.914	23.600	27096	38	15.838	24.199					27263	14	16.603	0.884	27335*	65	14.973	1.503
27025	14	10.528	23.074	27097	15	15.962	24.572					27264	9	16.725	0.250	27336	14	15.712	1.048
27026	14	11.396	23.525	27098*	57	16.030	24.174					27265	26	17.046	0.607	27337	15	15.912	1.210
27027	29	11.634	23.858	27099	44	16.788	24.238					27266	39	17.596	0.047	27338	40	16.365	1.994
27028	24	11.898	23.295	27100	18	16.982	24.004					27267	34	17.762	0.574	27339	17	16.542	1.336
27029	25	12.249	23.834	27101	13	19.130	24.212					27268	38	18.290	0.530	27340	31	16.910	1.166
27030	31	12.880	23.848	27102	15	19.182	24.886					27269	37	18.664	0.225	27341	19	17.038	1.382
27031	33	13.825	23.800	27103	43	20.060	24.891					27270	20	19.102	0.038	27342	23	17.128	1.360
27032	12	14.424	23.122	27104	14	20.787	24.348					27271	9	19.124	0.874	27343	18	17.698	1.209
27033	11	15.371	23.430	27105	10	21.290	24.808					27272	27	19.166	0.918	27344	9	17.752	1.712
27034	25	15.778	23.330	27106	14	21.466	24.526					27273	40	19.424	0.458	27345	16	17.768	1.445
27035	14	16.844	23.202	27107	12	22.428	24.668					27274	32	19.994	0.320	27346	13	17.808	1.975
27036	13	17.049	23.128	27108	49	22.575	24.300					27275	41	21.061	0.603	27347	11	18.910	1.522
27037	12	17.403	23.533	27109	34	23.446	24.875					27276	17	21.518	0.620	27348	14	19.137	1.109
27038	12	17.427	23.260	27110	12	23.978	24.238					27277	14	21.566	0.290	27349	13	19.240	1.987
27039	29	18.497	23.648	27111	14	24.684	24.280					27278	11	21.706	0.075	27350	29	19.334	1.502
27040	34	20.602	23.904	27112	29	0.130	25.427					27279	34	21.798	0.334	27351	12	19.402	1.949
27041	32	21.121	23.842	27113	26	1.120	25.168					27280*	54	22.046	0.865	27352	40	19.447	1.154
27042	44	22.172	23.400	27114	12	1.994	25.285					27281	12	22.414	0.802	27353*	85	19.814	1.140
27043	20	22.361	23.677	27115	33	2.194	25.334					27282	16	22.892	0.102	27354	15	20.021	1.390
27044	16	22.738	23.198	27116	35	2.800	25.454					27283	14	23.496	0.550	27355	28	20.044	1.014
27045	19	22.760	23.711	27117	10	5.640	25.801					27284	24	23.792	0.924	27356	32	20.613	1.323
27046	13	23.503	23.040	27118	12	5.736	25.698					27285	46	25.360	0.730	27357	17	20.919	1.375
27047	18	24.416	23.196	27119	33	5.966	25.023					27286	12	25.512	0.203	27358	9	21.100	1.700
27048	18	1.744	24.131	27120	31	6.204	25.749					27287	15	25.633	0.778	27359	35	22.471	1.784
27049	10	1.892	24.092	27121	34	7.596	25.059					27288	12	0.322	1.362	27360	13	22.509	1.038
27050	11	2.464	24.320	27122	12	7.878	25.262					27289	38	0.376	1.900	27361	16	22.936	1.900



27367	29	0°059	2°45	27439	18	25°630	2°370	27511	14	21°04	3°030	27553	12	12°134	4°004	27655	26	5°702	5°372
27368	39	0°724	2°322	27440	14	25°924	2°320	27512	14	21°074	3°016	27554	14	12°164	4°015	27656	27	5°916	5°302
27369	38	0°888	2°774	27441	16	0°000	3°795	27513	12	21°140	3°022	27555	34	12°568	4°558	27657	16	6°074	5°730
27370	11	1°320	2°770	27442	25	0°102	3°530	27514	10	21°354	3°488	27556	11	12°768	4°598	27658	18	6°200	5°788
27371	31	1°332	2°458	27443	11	1°706	3°157	27515	22	21°390	3°060	27557	21	12°833	4°413	27659	20	7°292	5°130
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29169	45	15.320	17.331	29241	13	5.125	18.864	29313	14	17.080	18.767	29385	34	2.726	19.668	29457	14	15.934	19.789
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29171	10	15.474	17.942	29243	12	5.255	18.174	29315	10	17.300	18.692	29387	11	2.862	19.148	29459	27	16.200	19.868
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29173	19	15.600	17.430	29245	10	6.229	18.664	29317	13	17.782	18.472	29389	20	3.338	19.611	29461	13	16.771	19.672
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29177	14	16.190	17.257	29249	10	6.828	18.532	29321	30	18.308	18.782	29393	14	4.272	19.024	29465	19	17.416	19.668
29178	11	16.750	17.750	29250	12	6.958	18.626	29322	11	18.442	18.568	29394	20	4.942	19.860	29466	10	17.496	19.670
29179	39	17.498	17.754	29251	14	7.422	18.420	29323	12	18.472	18.514	29395	32	5.150	19.744	29467	12	17.606	19.419
29180	17	17.592	17.710	29252	10	7.636	18.901	29324	24	18.733	18.134	29396	18	5.448	19.640	29468	17	17.917	19.033
29181	21	17.620	17.091	29253	41	7.715	18.136	29325	21	18.915	18.152	29397	17	5.578	19.740	29469	15	17.918	19.253
29182	12	17.898	17.532	29254	21	8.278	18.770	29326	22	19.115	18.412	29398	22	5.704	19.271	29470	11	17.968	19.094
29183	14	18.208	17.056	29255	21	8.287	18.598	29327	20	19.138	18.675	29399	19	6.007	19.534	29471	12	18.058	19.246
29184	19	18.705	17.303	29256	12	8.382	18.183	29328	15	19.172	18.670	29400	13	6.119	19.362	29472	10	18.182	19.458
29185	12	18.840	17.202	29257	10	8.576	18.436	29329	38	19.223	18.450	29401	13	6.178	19.024	29473	15	18.187	19.213
29186	18	18.886	17.013	29258	15	8.833	18.412	29330	18	19.614	18.930	29402	36	6.652	19.922	29474	17	18.338	19.122
29187	11	18.915	17.112	29259	10	8.884	18.264	29331	13	19.704	18.025	29403	25	6.653	19.160	29475	12	18.426	19.622
29188	10	19.041	17.938	29260	10	8.958	18.422	29332	19	19.778	18.172	29404	24	6.686	19.318	29476	23	18.521	19.960
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29190	29	19.280	17.302	29262	9	9.314	18.210	29334	15	20.193	18.898	29406	34	6.980	19.154	29478	44	18.742	19.842
29191	49	19.500	17.680	29263	31	9.400	18.078	29335	11	20.232	18.218	29407	14	7.227	19.049	29479	19	19.135	19.818
29192	12	19.664	17.378	29264	23	9.527	18.003	29336	10	20.293	18.900	29408	14	7.340	19.102	29480	13	19.204	19.802
29193	17	19.685	17.010	29265	12	9.561	18.066	29337	16	20.558	18.598	29409	27	7.514	19.398	29481	12	19.339	19.036
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29196	11	20.392	17.698	29268	9	10.160	18.022	29340	20	20.833	18.307	29412	29	7.820	19.603	29484	11	19.882	19.870
29197	13	20.426	17.856	29269	17	10.474	18.503	29341	13	20.968	18.942	29413	28	8.162	19.720	29485	12	19.934	19.540
29198	31	20.620	17.522	29270	35	10.503	18.581	29342	13	21.016	18.122	29414	14	8.310	19.706	29486	10	20.110	19.066
29199	15	20.748	17.980	29271	12	10.564	18.118	29343	12	21.508	18.193	29415	11	8.328	19.343	29487	40	20.254	19.722
29200	29	20.777	17.942	29272	37	10.631	18.102	29344	21	21.624	18.873	29416	17	8.337	19.528	29488	9	20.285	19.865
29201	13	21.102	17.250	29273	13	10.918	18.246	29345	11	21.811	18.876	29417	10	8.554	19.238	29489	31	20.491	19.142
29202	10	21.574	17.393	29274	40	11.107	18.818	29346	14	22.024	18.034	29418	21	8.593	19.513	29490	11	20.695	19.912
29203	11	21.854	17.507	29275	9	11.109	18.546	29347	38	22.152	18.930	29419	25	9.272	19.119	29491	10	21.027	19.328
29204	14	22.086	17.935	29276	14	11.146	18.778	29348	23	22.512	18.102	29420	19	9.432	19.384	29492	37	21.127	19.940
29205	15	22.400	17.623	29277	20	11.259	18.434	29349	12	22.707	18.504	29421	14	9.477	19.110	29493	11	21.192	19.930
29206	11	22.414	17.293	29278	10	11.409	18.940	29350	9	22.820	18.542	29422	13	9.514	19.555	29494	18	21.218	19.597
29207	11	22.426	17.300	29279	47	11.570	18.288	29351	31	22.953	18.114	29423	22	9.522	19.856	29495	10	21.511	19.102
29208	15	22.593	17.248	29280	18	11.706	18.078	29352	34	22.968	18.471	29424	34	9.610	19.510	29496	34	21.567	19.530
29209	19	22.650	17.642	29281	26	11.756	18.900	29353	18	23.006	18.114	29425	13	9.722	19.734	29497	14	21.570	19.386
29210	29	22.876	17.360	29282	10	11.875	18.507	29354	16	23.163	18.417	29426	24	9.812	19.254	29498	10	21.822	19.912
29211	9	23.398	17.107	29283	9	11.893	18.100	29355	30	23.197	18.808	29427	20	9.826	19.898	29499	29	22.002	19.866
29212	22	23.608	17.329	29284	20	12.366	18.680	29356	10	23.203	18.243	29428	12	9.828	19.638	29500	13	22.534	19.599
29213	9	23.970	17.062	29285	47	12.371	18.169	29357	17	23.323	18.675	29429	10	9.945	19.486	29501	11	22.860	19.313
29214	27	23.993	17.430	29286	9	12.464	18.752	29358	10	23.594	18.618	29430	44	9.952	19.202	29502	10	22.924	19.372
29215	15	24.232	17.618	29287	14	12.491	18.952	29359	10	23.746	18.189	29431	10	10.370	19.070	29503	20	23.130	19.140
29216	43	24.235	17.974	29288	10	12.768	18.478	29360	20	23.754	18.608	29432	11	10.630	19.571	29504	15	23.218	19.329
29217	10	24.286	17.500	29289	19	12.932	18.123	29361	11	23.880	18.588	29433	50	10.639	19.024	29505	14	23.320	19.926
29218	22	24.334	17.680	29290	15	13.040	18.334	29362	12	23.881	18.472	29434	14	10.974	19.014	29506	43	23.507	19.040
29219	25	24.603	17.109	29291	30	13.287	18.619	29363	32	24.081	18.722	29435	32	10.978	19.652	29507	45	23.541	19.416
29220	16	24.828	17.244	29292	34	13.386	18.013	29364	22	24.352	18.470	29436	17	11.118	19.518	29508	17	23.654	19.318
29221	14	25.474	17.062	29293	34	13.450	18.689	29365	21	25.088	18.694	29437	10	11.292	19.410	29509	17	24.030	19.024
29222	18	25.980	17.604	29294	14	13.474	18.212	29366	10	25.100	18.424	29438	26	11.450	19.256	29510	10	24.414	19.172
29223	10	0.626	18.650	29295	9	13.852	18.122	29367	11	25.138	18.422	29439	14	11.785	19.162	29511	32	24.888	19.368
29224	15	1.126	18.384	29296	17	13.990	18.362	29368	40	25.814	18.322	29440	18	11.874	19.913	29512	24	25.206	19.272
29225	9	1.310	18.906	29297	14	13.999	18.902	29369	13	0.412	19.193	29441	28	11.920	19.042	29513	10	25.283	19.585
29226	12	1.533	18.196	29298	15	14.208	18.688	29370	19	0.423	19.148	29442	10	12.154	19.722	29514	41	25.402	19.918
29227	11	1.588	18.557	29299	43	14.554	18.503	29371	30	0.513	19.006	29443	12	12.754	19.458	29515	30	25.722	19.412
29228	32	1.961	18.722	29300	19	15.076	18.116	29372	48	0.770	19.056	29444	17</						



29527*	58	2.650	20.976	29599	38	16.330	20.700	29671	13	3.048	21.110	29743	10	16.692	21.913	29815	29	1.963	22.688
29528	30	2.682	20.574	29600	10	16.386	20.016	29672	12	3.136	21.983	29744	40	16.696	21.598	29816	22	1.966	22.090
29529	10	3.149	20.552	29601	20	16.418	20.542	29673	29	3.256	21.492	29745	14	16.732	21.980	29817	9	2.246	22.777
29530	45	3.308	20.219	29602	14	16.606	20.202	29674	12	3.320	21.276	29746	31	17.208	21.162	29818	32	2.336	22.408
29531	19	3.314	20.272	29603	28	16.796	20.720	29675	14	3.380	21.808	29747	35	17.239	21.318	29819	30	2.658	22.702
29532	18	3.622	20.228	29604	17	16.892	20.668	29676	15	3.604	21.298	29748	17	17.330	21.928	29820	18	3.430	22.972
29533	20	4.258	20.722	29605	10	16.893	20.823	29677	13	3.690	21.102	29749	21	17.344	21.762	29821	12	3.888	22.772
29534	24	4.284	20.399	29606	10	17.054	20.784	29678	11	3.835	21.371	29750	10	17.512	21.744	29822	13	3.926	22.952
29535	41	4.932	20.987	29607	24	17.492	20.336	29679	21	3.856	21.251	29751	12	17.530	21.800	29823	15	3.960	22.130
29536	10	4.988	20.192	29608	15	17.558	20.970	29680	21	3.956	21.468	29752	39	17.720	21.928	29824	13	4.104	22.286
29537	14	5.180	20.668	29609	53	17.766	20.372	29681	10	4.184	21.449	29753	14	17.972	21.213	29825	12	4.347	22.632
29538	13	5.458	20.185	29610	28	17.834	20.232	29682*	60	4.318	21.036	29754	25	18.055	21.884	29826	19	4.441	22.007
29539	10	5.524	20.982	29611	11	18.202	20.032	29683	22	4.512	21.470	29755	44	18.101	21.132	29827	10	4.856	22.619
29540	19	5.585	20.042	29612	25	18.207	20.912	29684	10	4.891	21.718	29756	18	18.190	21.527	29828	10	4.896	22.530
29541	10	5.758	20.524	29613	17	18.232	20.671	29685	12	5.838	21.403	29757	30	18.480	21.794	29829	11	4.970	22.374
29542	11	5.946	20.973	29614	31	18.417	20.978	29686	11	6.316	21.193	29758	20	18.508	21.392	29830	11	5.130	22.917
29543	33	6.320	20.911	29615	20	18.513	20.477	29687	12	6.756	21.967	29759	12	18.734	21.232	29831	11	5.576	22.110
29544	18	6.366	20.630	29616	11	18.558	20.212	29688	15	6.894	21.999	29760	27	18.806	21.559	29832	36	5.908	22.456
29545	14	6.950	20.720	29617	12	18.631	20.327	29689	35	7.188	21.426	29761	21	18.901	21.508	29833	17	5.933	22.970
29546	13	7.328	20.054	29618	14	18.778	20.083	29690	14	7.214	21.455	29762	10	18.905	21.494	29834	10	6.812	22.506
29547	14	7.388	20.008	29619	16	19.110	20.350	29691	17	7.383	21.227	29763	32	19.006	21.618	29835	14	6.996	22.209
29548	28	7.450	20.800	29620*	56	19.176	20.070	29692	17	7.688	21.652	29764	25	19.130	21.552	29836	18	7.092	22.321
29549	10	7.634	20.616	29621	27	19.273	20.907	29693	12	8.020	21.957	29765	12	19.566	21.957	29837	18	7.108	22.408
29550	17	7.687	20.440	29622	12	19.289	20.467	29694	20	8.022	21.512	29766	18	19.629	21.982	29838	16	7.433	22.113
29551	31	7.710	20.954	29623	30	19.388	20.995	29695	18	8.260	21.428	29767	18	19.670	21.770	29839	17	8.278	22.160
29552	42	7.868	20.026	29624	17	19.424	20.863	29696	15	8.309	21.182	29768	32	19.680	21.912	29840	11	8.286	22.167
29553	16	7.900	20.439	29625	14	19.454	20.184	29697	14	8.362	21.342	29769	11	19.702	21.058	29841	40	8.294	22.988
29554	23	8.211	20.982	29626	23	19.478	20.072	29698	17	8.538	21.883	29770	18	19.785	21.246	29842	15	8.422	22.752
29555	12	8.260	20.700	29627	11	19.541	20.378	29699	11	8.578	21.317	29771	32	19.978	21.536	29843	43	8.436	22.453
29556	13	8.510	20.980	29628	49	19.626	20.309	29700	20	8.680	21.504	29772	14	20.076	21.892	29844	16	8.556	22.262
29557	10	8.561	20.884	29629	30	19.811	20.375	29701	10	8.900	21.820	29773	14	20.098	21.440	29845	33	8.701	22.450
29558	43	8.806	20.792	29630	38	19.906	20.884	29702	9	8.908	21.838	29774	13	20.110	21.169	29846	15	8.786	22.677
29559	18	9.108	20.972	29631	11	19.990	20.851	29703	16	8.962	21.548	29775	16	20.184	21.785	29847	21	8.802	22.753
29560	19	9.128	20.916	29632	10	20.022	20.700	29704	13	9.096	21.228	29776	32	20.460	21.194	29848	42	9.199	22.741
29561	19	9.226	20.216	29633	12	20.135	20.324	29705	28	9.164	21.846	29777	14	20.668	21.204	29849	13	9.276	22.508
29562	41	9.240	20.771	29634	33	20.136	20.289	29706	19	9.258	21.526	29778	11	20.862	21.528	29850	12	9.656	22.066
29563	10	9.248	20.195	29635	17	20.216	20.892	29707	15	9.267	21.294	29779	10	20.880	21.220	29851	17	10.242	22.543
29564	14	9.426	20.686	29636	12	20.438	20.824	29708	19	9.332	21.143	29780	13	20.894	21.410	29852	17	10.515	22.178
29565	10	9.450	20.580	29637	11	20.657	20.053	29709	11	9.507	21.719	29781	11	21.322	21.446	29853	39	10.690	22.218
29566	37	9.576	20.542	29638	12	20.770	20.560	29710	9	9.640	21.080	29782	24	21.618	21.820	29854	24	11.058	22.004
29567	30	9.622	20.038	29639	24	20.890	20.744	29711	10	9.722	21.270	29783	23	21.656	21.905	29855	12	11.134	22.941
29568	13	9.623	20.579	29640	14	21.102	20.541	29712	18	9.808	21.382	29784	17	21.838	21.522	29856	11	11.156	22.095
29569	30	9.648	20.991	29641	32	21.134	20.376	29713	28	10.038	21.583	29785	21	21.856	21.052	29857	13	11.230	22.598
29570	24	9.741	20.796	29642	41	21.381	20.212	29714	16	10.186	21.200	29786	10	22.026	21.312	29858	27	11.280	22.684
29571	11	9.821	20.734	29643	23	21.519	20.292	29715	40	10.331	21.912	29787	38	22.870	21.993	29859	12	11.300	22.542
29572	13	9.844	20.892	29644	11	21.628	20.032	29716	10	10.358	21.354	29788	39	23.064	21.224	29860	13	11.776	22.880
29573	17	10.360	20.158	29645	17	21.990	20.432	29717	12	10.373	21.060	29789	22	23.094	21.850	29861	12	11.900	22.927
29574	14	10.381	20.039	29646	19	23.339	20.028	29718	18	10.422	21.224	29790	14	23.170	21.659	29862	20	11.971	22.907
29575	19	10.504	20.202	29647	14	23.430	20.574	29719	22	10.892	21.137	29791	19	23.370	21.639	29863	24	11.984	22.128
29576	13	10.616	20.769	29648	23	23.443	20.870	29720	39	10.942	21.060	29792	28	23.420	21.488	29864	10	12.453	22.912
29577	36	10.790	20.886	29649	13	23.491	20.020	29721	17	11.196	21.750	29793	31	23.521	21.958	29865	14	12.481	22.972
29578	25	11.170	20.253	29650	12	23.602	20.028	29722	50	11.159	21.636	29794	14	23.536	21.758	29866	31	12.822	22.480
29579	12	11.392	20.541	29651	33	23.742	20.161	29723	22	11.477	21.648	29795	21	23.726	21.037	29867	15	13.075	22.963
29580	30	11.457	20.368	29652	17	24.004	20.438	29724	19	11.532	21.325	29796	38	23.728	21.028	29868	30	13.282	22.364
29581	10	11.562	20.702	29653	13	24.066	20.896	29725	23	11.668	21.920	29797	42	23.927	21.270	29869	14	13.360	22.500
29582	15	11.618	20.194	29654	15	24.166	20.240	29726	17	12.072	21.225	29798	32	24.093	21.180	29870	16	13.806	22.299
29583	19	11.878	20.082	29655	23	24.230	20.878	29727	21	12.092	21.897	29799	9	24.170	21.174	29871	13	13.930	22.854
29584	14	11.968	20.122	29656	32	24.537	20.808	29728	13	12.354	21.893	29800	12	24.212	21.056	29872	23	14.047	22.324
29585	23	12.225	20.995	29657	16	24.611	20.094	29729	26	12.486	21.290	29801	11	24.783	21.028	29873	14	14.062	22.130
29586	28	12.244	20.872	29658*	64	24.757	20.841	29730	10	12.588	21.173	29802	19	25.018	21.803	29874	10	14.140	22.387
29587*	61	12.482	20.656	29659	9	24.872	20.480	29731	15	13.009	21.812	29803	18	25.132	21.444	29875	14	14.238	22.432
29588	19	12.716	20.908	29660	9	25.172	20.089	29732	42	13.256	21.350	29804	44	25.299	21.842	29			



29887	18	16.736	22.888	29959	12	2.882	23.958	30031	20	20.440	23.368	30103	23	10.798	24.888	30175	12	5.902	25.904
29888	11	16.786	22.792	29960	14	3.022	23.082	30032	31	20.504	23.534	30104	20	10.876	24.086	30176	10	6.118	25.605
29889	18	16.930	22.122	29961	10	3.685	23.254	30033	12	20.622	23.812	30105	21	11.017	24.590	30177	29	6.234	25.415
29890	12	16.994	22.780	29962	14	4.096	23.306	30034	12	20.650	23.912	30106	31	11.236	24.627	30178	41	6.409	25.150
29891	36	17.062	22.973	29963	12	4.213	23.036	30035	13	20.854	23.940	30107	12	11.492	24.246	30179	18	6.674	25.710
29892	36	17.084	22.884	29964	14	4.636	23.172	30036	16	20.906	23.580	30108	30	11.604	24.496	30180	144	6.674	25.230
29893	16	17.352	22.022	29965	29	4.696	23.862	30037	18	20.944	23.456	30109	24	11.610	24.900	30181	12	6.736	25.938
29894	19	17.582	22.321	29966	22	5.062	23.028	30038	14	21.006	23.276	30110	19	12.256	24.664	30182	24	7.324	25.077
29895	25	17.908	22.867	29967	10	5.846	23.102	30039	14	21.549	23.577	30111	11	12.424	24.446	30183	14	7.353	25.392
29896	46	18.051	22.284	29968	13	6.602	23.132	30040	17	21.612	23.635	30112	14	12.770	24.950	30184	15	7.515	25.084
29897	13	18.058	22.110	29969	18	6.801	23.873	30041	40	21.902	23.086	30113	20	12.972	24.348	30185	16	8.316	25.117
29898	32	18.102	22.508	29970	20	7.174	23.014	30042	42	21.912	23.738	30114	11	13.298	24.280	30186	13	8.323	25.518
29899	20	18.120	22.547	29971	20	7.490	23.592	30043	71	22.405	23.814	30115	43	13.410	24.048	30187	10	8.348	25.506
29900	14	18.366	22.102	29972	30	7.625	23.720	30044	10	22.542	23.257	30116	10	13.590	24.820	30188	28	8.422	25.281
29901	23	18.734	22.234	29973	17	7.634	23.938	30045	23	22.698	23.022	30117	19	13.603	24.162	30189	12	8.900	25.840
29902	20	18.792	22.179	29974	10	7.841	23.866	30046	40	22.784	23.950	30118	18	13.657	24.698	30190	21	9.478	25.962
29903	15	18.818	22.979	29975	12	8.033	23.192	30047	41	22.850	23.930	30119	10	14.265	24.263	30191	19	9.622	25.963
29904	14	18.852	22.539	29976	19	8.038	23.038	30048	17	22.932	23.558	30120	32	14.584	24.518	30192	26	10.488	25.019
29905	28	18.858	22.862	29977	12	8.216	23.498	30049	11	22.958	23.960	30121	13	15.561	24.578	30193	26	10.702	25.537
29906	10	18.864	22.735	29978	31	9.380	23.019	30050	24	23.033	23.494	30122	16	15.651	24.846	30194	31	10.822	25.126
29907	30	18.866	22.912	29979	10	9.400	23.434	30051	12	24.082	23.276	30123	32	16.686	24.058	30195	21	11.030	25.518
29908	14	18.868	22.614	29980	10	9.728	23.939	30052	21	24.120	23.996	30124	10	16.949	24.243	30196	21	11.240	25.294
29909	18	19.148	22.220	29981	10	9.883	23.280	30053	13	24.366	23.682	30125	14	17.120	24.773	30197	14	11.286	25.030
29910	16	19.344	22.609	29982	25	10.196	23.917	30054	13	24.760	23.863	30126	15	17.318	24.842	30198	22	11.312	25.794
29911	15	19.386	22.511	29983	18	10.222	23.126	30055	12	24.823	23.762	30127	10	17.344	24.698	30199	38	11.898	25.360
29912	16	19.590	22.166	29984	21	11.092	23.597	30056	21	24.872	23.958	30128	22	17.612	24.708	30200	80	12.100	25.102
29913	38	19.604	22.056	29985	10	11.269	23.178	30057	30	25.130	23.987	30129	9	18.196	24.695	30201	33	12.751	25.881
29914	14	19.628	22.530	29986	18	11.560	23.332	30058	9	25.218	23.805	30130	62	18.408	24.368	30202	13	13.100	25.280
29915	18	19.780	22.008	29987	12	11.680	23.487	30059	10	25.270	23.352	30131	11	18.472	24.644	30203	23	13.272	25.940
29916	18	19.866	22.140	29988	78	12.300	23.526	30060	11	25.597	23.671	30132	10	18.559	24.682	30204	25	13.386	25.630
29917	39	19.914	22.752	29989	18	12.572	23.410	30061	17	25.820	23.168	30133	11	18.779	24.882	30205	29	13.704	25.948
29918	16	20.059	22.652	29990	12	12.727	23.743	30062	9	25.920	23.670	30134	9	18.931	24.308	30206	30	13.823	25.577
29919	18	20.212	22.270	29991	13	12.847	23.787	30063	19	0.638	24.738	30135	34	19.460	24.596	30207	15	13.882	25.068
29920	18	20.338	22.007	29992	16	12.871	23.298	30064	56	0.771	24.369	30136	10	19.860	24.580	30208	21	15.342	25.994
29921	17	20.496	22.192	29993	14	13.020	23.209	30065	42	1.652	24.932	30137	38	19.982	24.428	30209	14	15.666	25.788
29922	16	20.684	22.238	29994	33	13.162	23.995	30066	12	1.942	24.092	30138	33	20.027	24.610	30210	15	15.685	25.783
29923	32	20.860	22.880	29995	14	13.386	23.699	30067	21	2.180	24.286	30139	25	20.125	24.730	30211	23	15.776	25.730
29924	20	20.933	22.675	29996	16	13.404	23.264	30068	23	2.888	24.319	30140	11	20.386	24.176	30212	38	15.975	25.508
29925	16	21.082	22.507	29997	38	14.395	23.337	30069	15	3.885	24.602	30141	10	20.558	24.364	30213	16	16.811	25.084
29926	17	21.083	22.084	29998	15	14.415	23.222	30070	12	4.144	24.832	30142	10	21.288	24.543	30214	13	16.920	25.657
29927	21	21.090	22.702	29999	44	14.542	23.716	30071	29	4.502	24.050	30143	27	21.401	24.556	30215	25	17.378	25.808
29928	35	21.397	22.223	30000	23	15.074	23.042	30072	23	4.512	24.884	30144	23	21.478	24.050	30216	20	17.703	25.604
29929	31	21.402	22.775	30001	25	15.550	23.870	30073	21	4.611	24.670	30145	38	21.912	24.022	30217	31	17.756	25.146
29930	15	21.790	22.247	30002	23	16.057	23.972	30074	18	4.638	24.958	30146	15	22.402	24.840	30218	11	18.108	25.534
29931	19	22.216	22.018	30003	39	16.357	23.527	30075	31	4.646	24.106	30147	11	22.735	24.119	30219	13	18.902	25.380
29932	43	22.474	22.569	30004	20	16.680	23.308	30076	38	4.888	24.003	30148	11	22.937	24.255	30220	32	19.074	25.484
29933	20	22.687	22.550	30005	10	16.822	23.878	30077	18	4.975	24.553	30149	10	22.938	24.810	30221	28	19.452	25.598
29934	26	22.710	22.628	30006	38	16.844	23.681	30078	27	5.517	24.227	30150	10	23.372	24.379	30222	28	19.813	25.140
29935	12	22.734	22.493	30007	12	16.990	23.671	30079	12	5.582	24.090	30151	25	23.567	24.539	30223	17	19.920	25.898
29936	33	22.960	22.152	30008	15	17.262	23.552	30080	11	5.798	24.021	30152	13	23.614	24.320	30224	24	19.991	25.516
29937	16	23.123	22.851	30009	21	17.396	23.896	30081	24	6.192	24.888	30153	51	24.054	24.686	30225	18	20.179	25.064
29938	31	23.353	22.586	30010	32	17.404	23.662	30082	26	6.340	24.521	30154	40	24.242	24.261	30226	28	20.344	25.780
29939	29	23.762	22.911	30011	17	17.448	23.212	30083	18	6.422	24.392	30155	25	24.269	24.250	30227	15	21.322	25.591
29940	10	23.771	22.847	30012	14	17.510	23.282	30084	21	6.479	24.123	30156	18	24.952	24.779	30228	15	21.580	25.158
29941	17	23.834	22.990	30013	41	17.600	23.148	30085	10	6.512	24.022	30157	10	25.016	24.323	30229	12	21.984	25.174
29942	67	24.016	22.064	30014	10	17.948	23.358	30086	16	6.622	24.190	30158	19	25.318	24.428	30230	14	22.049	25.282
29943	13	24.160	22.224	30015	19	17.977	23.780	30087	26	7.559	24.832	30159	21	25.662	24.404	30231	17	22.332	25.073
29944	35	24.832	22.804	30016	25	18.006	23.840	30088	20	7.598	24.624	30160	32	0.682	25.318	30232	12	22.854	25.000
29945	10	24.992	22.582	30017	10	18.558	23.598	30089	36	7.695	24.508	30161	19	1.486	25.528	30233	23	22.974	25.096
29946	33	25.300	22.474	30018	10	18.678	23.469	30090	17	7.912	24.962	30162	10	1.687	25.486	30234	48	24.448	25.199
29947	28	25.349	22.522	30019	44	18.703	23.257	30091	20	7.931	24.868	30163	11	1.722	25.780	30235	25	25.176	25.306
29948	14	25.441	22.004	30020	9	18.710	23.872	30092	20	7.968									



**R.A. 7<sup>h</sup> 40<sup>m</sup>**

Plate 1572; 1920 Feb. 14.

### Provisional Constants.

$$\begin{array}{r} \text{A} \quad \text{B} \quad \text{C} \\ -01730 + .00423 - .1022 \end{array}$$

D	E	F
-00439	-01737	-2059

$$Mag.=17.3-1.05\sqrt{d}$$

No.	d	x	y
30251	14	0.264	0.974
30252	19	0.730	0.266
30253	19	1.340	0.706
30254	17	1.500	0.036
30255	48	3.200	0.864
30256	15	3.354	0.334
30257	20	3.479	0.904
30258	22	3.986	0.744
30259	37	4.050	0.207
30260	34	5.204	0.998
30261	12	5.404	0.567
30262	14	5.498	0.994
30263	12	5.772	0.894
30264	15	5.902	0.164
30265*	46	6.199	0.565
30266	22	6.243	0.438
30267	47	6.282	0.376
30268	38	6.555	0.266
30269	32	7.958	0.128
30270	27	8.006	0.466
30271	40	8.132	0.806
30272	36	8.216	0.817
30273	12	8.564	0.294
30274	24	8.688	0.520
30275	14	8.698	0.146
30276	16	8.860	0.606
30277	39	8.901	0.198
30278	35	8.939	0.466
30279	44	8.974	0.886
30280	17	9.321	0.072
30281	17	9.494	0.092
30282	23	9.634	0.914
30283	20	9.856	0.667
30284	12	9.994	0.181
30285	39	10.392	0.324
30286	20	10.450	0.956
30287	28	10.764	0.881
30288	38	11.250	0.282
30289	16	11.400	0.377
30290	25	12.164	0.626
30291	19	12.174	0.973
30292	14	12.854	0.544
30293	10	12.924	0.220
30294	15	13.062	0.086
30295	19	13.843	0.560
30296	32	13.964	0.844
30297	13	13.982	0.001
30298	20	14.182	0.717
30299	26	14.342	0.584
30300	14	14.483	0.370
30301	24	14.780	0.914
30302	14	15.371	0.202
30303	21	15.606	0.135
30304	15	15.648	0.754
30305	24	15.754	0.587



30594	17	15.976	3.064	30666	20	10.832	4.642	30738	22	5.696	5.658	30810	11	25.486	5.946	30882*	73	16.923	6.006
30595	20	16.036	3.465	30667	20	10.894	4.495	30739	21	5.704	5.644	30811	12	25.738	5.614	30883	15	17.300	6.397
30596	34	16.467	3.704	30668	22	11.605	4.194	30740	20	6.314	5.292	30812	46	0.372	6.792	30884	20	17.356	6.017
30597	12	16.582	3.956	30669	11	11.654	4.575	30741	15	6.344	5.936	30813	22	0.865	6.230	30885	24	17.386	6.876
30598	24	16.876	3.576	30670	16	11.768	4.226	30742	13	6.454	5.634	30814	15	0.894	6.687	30886*	50	17.521	6.795
30599	20	17.550	3.454	30671	8	12.104	4.659	30743	15	6.540	5.958	30815	10	1.386	6.587	30887	11	17.836	6.427
30600	18	17.936	3.553	30672	10	12.135	4.695	30744	11	6.709	5.300	30816	19	2.034	6.038	30888	11	18.424	6.672
30601	37	18.980	3.205	30673	14	12.594	4.754	30745	12	6.834	5.086	30817	39	2.166	6.884	30889	13	18.562	6.033
30602	14	19.092	3.564	30674	20	12.627	4.364	30746	16	6.966	5.404	30818	20	2.402	6.100	30890	23	18.758	6.626
30603	23	19.218	3.882	30675	26	12.642	4.984	30747	20	7.254	5.203	30819	21	2.494	6.426	30891	14	18.966	6.654
30604	13	19.344	3.686	30676	22	12.710	4.440	30748	20	7.284	5.256	30820	14	3.109	6.966	30892	14	19.570	6.568
30605	26	19.738	3.766	30677	16	12.955	4.224	30749	16	7.392	5.394	30821	19	3.521	6.944	30893	14	19.958	6.042
30606	26	19.852	3.809	30678	10	13.134	4.658	30750	16	7.720	5.125	30822	22	3.583	6.118	30894	18	20.104	6.176
30607	16	20.198	3.594	30679	19	13.624	4.596	30751	34	7.826	5.080	30823	20	4.054	6.218	30895	11	20.604	6.864
30608	16	20.857	3.054	30680	20	14.222	4.288	30752	14	8.146	5.634	30824	19	4.204	6.426	30896*	57	20.818	6.482
30609	26	20.918	3.193	30681	15	14.292	4.358	30753*	46	8.376	5.292	30825	17	4.216	6.364	30897	18	20.946	6.238
30610	22	21.224	3.956	30682	12	14.557	4.864	30754	14	8.686	5.805	30826	21	4.501	6.896	30898	34	21.302	6.418
30611	14	22.046	3.096	30683	20	15.192	4.452	30755	15	8.740	5.163	30827*	64	4.771	6.502	30899	16	21.844	6.728
30612	28	22.946	3.176	30684	13	15.258	4.174	30756	11	8.806	5.136	30828	24	4.914	6.946	30900	20	22.434	6.244
30613	22	25.171	3.828	30685	12	15.376	4.612	30757	15	8.848	5.358	30829	31	5.230	6.626	30901	26	23.884	6.056
30614	24	25.465	3.252	30686	19	15.414	4.184	30758	20	9.090	5.454	30830	23	5.758	6.084	30902	20	24.074	6.460
30615	22	25.582	3.656	30687	11	15.466	4.216	30759	21	9.198	5.596	30831	10	5.835	6.188	30903	14	24.074	6.366
30616	17	0.216	4.950	30688	13	15.940	4.086	30760	21	9.383	5.032	30832	22	6.096	6.886	30904	17	24.128	6.154
30617	20	0.221	4.856	30689	15	15.950	4.392	30761	17	9.470	5.462	30833	19	6.730	6.836	30905	22	24.895	6.444
30618	13	0.714	4.534	30690	24	16.302	4.786	30762	11	9.686	5.985	30834	32	7.128	6.683	30906	14	24.984	6.772
30619	10	0.714	4.185	30691	20	16.482	4.804	30763	37	10.354	5.660	30835	27	7.475	6.644	30907	11	25.074	6.315
30620	30	1.420	4.344	30692	13	16.857	4.736	30764	22	11.428	5.166	30836	20	7.554	6.300	30908	15	25.146	6.055
30621	38	1.554	4.692	30693	30	17.082	4.038	30765	18	11.804	5.606	30837	17	7.764	6.444	30909	13	25.738	6.312
30622	14	2.015	4.524	30694	14	17.179	4.074	30766	36	11.966	5.426	30838	14	7.877	6.114	30910	17	0.764	7.118
30623	18	2.214	4.418	30695	34	17.598	4.724	30767	17	12.557	5.304	30839	54	7.886	6.138	30911*	56	0.856	7.674
30624	13	2.241	4.376	30696	20	17.652	4.779	30768	22	12.564	5.256	30840	41	7.924	6.358	30912	21	1.125	7.966
30625	20	3.056	4.591	30697	19	17.790	4.308	30769	11	12.851	5.616	30841	14	7.956	6.904	30913	39	1.154	7.125
30626	15	3.174	4.135	30698	10	18.076	4.779	30770	16	13.034	5.716	30842	16	8.452	6.525	30914	13	1.256	7.204
30627	29	3.344	4.355	30699	38	18.214	4.142	30771	10	13.340	5.382	30843	17	8.496	6.946	30915	11	1.532	7.332
30628	15	3.945	4.205	30700	16	18.456	4.756	30772	34	13.484	5.233	30844	25	8.857	6.282	30916*	57	2.229	7.018
30629	38	4.005	4.058	30701	12	18.644	4.984	30773	17	13.609	5.034	30845	13	8.882	6.676	30917	19	2.274	7.058
30630	19	4.155	4.954	30702	23	18.972	4.706	30774	14	13.897	5.268	30846	23	9.288	6.156	30918	21	2.438	7.697
30631	23	4.230	4.105	30703	15	19.161	4.873	30775	20	14.104	5.974	30847	13	9.384	6.810	30919	26	2.807	7.934
30632	15	4.512	4.774	30704	9	20.227	4.402	30776	21	14.216	5.108	30848	15	9.424	6.402	30920	14	2.872	7.746
30633	18	4.582	4.521	30705	12	20.296	4.406	30777	13	14.300	5.217	30849	18	9.516	6.480	30921	15	3.260	7.032
30634	13	4.886	4.265	30706	21	20.384	4.326	30778	15	15.670	5.960	30850	22	9.595	6.204	30922	17	3.364	7.714
30635	19	4.956	4.156	30707	22	20.508	4.178	30779	8	15.905	5.484	30851	25	9.614	6.194	30923	20	3.620	7.152
30636	20	4.980	4.066	30708	38	20.890	4.057	30780	19	16.145	5.136	30852	17	9.720	6.444	30924	13	3.956	7.676
30637	15	5.037	4.694	30709	11	21.218	4.844	30781	19	16.194	5.931	30853	14	9.760	6.207	30925	14	4.110	7.426
30638	18	5.338	4.556	30710	15	21.768	4.253	30782	13	16.460	5.344	30854	13	9.884	6.795	30926	12	4.223	7.424
30639	16	5.776	4.984	30711	23	22.286	4.573	30783*	54	16.912	5.350	30855	12	10.056	6.287	30927	20	4.482	7.217
30640	19	5.873	4.744	30712	15	22.566	4.644	30784	17	17.322	5.764	30856	15	10.066	6.296	30928	15	4.568	7.438
30641	24	6.298	4.313	30713	16	22.992	4.616	30785	15	17.654	5.656	30857	11	10.165	6.325	30929	21	5.266	7.995
30642	20	6.392	4.026	30714	26	23.575	4.968	30786	10	17.659	5.086	30858	26	10.706	6.397	30930	10	5.554	7.785
30643	12	6.450	4.322	30715	13	23.774	4.562	30787	12	17.666	5.444	30859	28	11.064	6.654	30931	14	5.802	7.785
30644	13	6.784	4.794	30716	18	23.956	4.756	30788	31	17.698	5.488	30860	21	12.085	6.764	30932	16	6.002	7.761
30645	38	6.873	4.687	30717	30	25.060	4.144	30789	29	18.186	5.556	30861	28	12.785	6.374	30933	14	6.033	7.100
30646	19	6.954	4.795	30718	28	25.171	4.244	30790	19	18.866	5.539	30862	11	13.235	6.783	30934	18	6.055	7.798
30647	24	6.994	4.536	30719	24	25.340	4.876	30791	20	19.268	5.658	30863	13	13.598	6.895	30935	26	6.148	7.886
30648	20	7.104	4.504	30720	34	0.616	5.588	30792	11	19.486	5.796	30864	30	13.866	6.186	30936	11	6.162	7.874
30649	37	7.390	4.504	30721	23	0.646	5.106	30793	16	19.774	5.544	30865	11	14.072	6.848	30937	10	6.239	7.054
30650	15	7.594	4.432	30722	12	1.174	5.856	30794	38	19.932	5.982	30866	19	14.258	6.936	30938	16	6.329	7.086
30651	11	7.710	4.924	30723	15	2.066	5.964	30795	19	20.066	5.144	30867	46	14.382	6.254	30939	12	6.696	7.776
30652	17	7.790	4.454	30724	8	2.096	5.884	30796	21	20.152	5.911	30868	18	14.976	6.446	30940	14	6.910	7.920
30653	14	8.014	4.964	30725	12	2.124	5.754	30797	13	21.153	5.316	30869	17	15.144	6.356	30941	15	7.601	7.206
30654	12	8.230	4.673	30726	15	2.146	5.457	30798	22	21.290	5.170	30870	11	15.231	6.134	30942	11	7.636	7.806
30655	18	8.419	4.014	30727	39	2.568	5.574	30799	11	21.295	5.802	30871	13	15.532	6.635	30943	18	7.924	7.866
30656	14	8.440	4.140	30728	20	3.245	5.486	30800	17	21.624	5.754	30872	10	15.586	6.334	30944	28	8.328	7.894
30657	18	8.526	4.836	30729	19	4.024	5.485	30801	21	22.326									



30954*	48	10-254	7-945	31026	21	24 050	7-888	31098	13	14-300	8-696	31170	19	6-750	9-984	31212	10	21-762	9-695
30955	30	10-276	7-752	31027	16	24-114	7-274	31099	11	14-714	8-368	31171	12	6-984	9-174	31213	16	21-814	9-835
30956	13	10-434	7-854	31028	20	24-250	7-995	31100	19	15-136	8-676	31172	15	7-270	9-039	31214	11	22-404	9-819
30957	14	10-460	7-094	31029	23	24-400	7-154	31101	15	15-146	8-360	31173	16	7-342	9-054	31215	13	22-867	9-234
30958	39	10-544	7-956	31030	13	24-928	7-002	31102	19	15-694	8-114	31174	32	7-199	9-344	31216	19	23-043	9-755
30959	14	10-676	7-917	31031	27	25-256	7-746	31103	11	16-217	8-725	31175	20	7-514	9-054	31217	13	23-355	9-146
30960*	38	10-914	7-815	31032	20	0-094	8-751	31104	20	16-314	8-324	31176	14	7-526	9-047	31218	30	23-419	9-714
30961	25	10-924	7-804	31033	23	0-416	8-794	31105	19	16-754	8-355	31177	10	7-536	9-705	31219	13	23-535	9-125
30962	13	11-366	7-316	31034	20	0-726	8-750	31106	23	17-502	8-011	31178	13	7-626	9-596	31220	15	23-575	9-398
30963	12	11-410	7-416	31035	23	0-878	8-237	31107	40	17-754	8-061	31179	20	7-778	9-461	31221	21	23-594	9-588
30964	20	11-772	7-664	31036	13	1-128	8-044	31108	39	18-406	8-044	31180	15	7-822	9-704	31222	15	23-664	9-686
30965	19	11-965	7-173	31037	27	1-206	8-610	31109	11	18-837	8-040	31181	13	8-004	9-475	31223	30	23-744	9-244
30966	16	12-114	7-165	31038	18	1-258	8-996	31110	18	19-394	8-414	31182	11	8-092	9-424	31224	34	23-818	9-344
30967	16	12-144	7-195	31039	31	1-382	8-176	31111	11	19-982	8-654	31183	16	8-204	9-924	31225	16	23-976	9-754
30968	18	12-614	7-664	31040	18	2-278	8-344	31112	18	20-026	8-618	31184	10	8-354	9-785	31226	52	24-154	9-566
30969	17	12-666	7-048	31041	31	2-415	8-854	31113	20	20-230	8-706	31185	20	8-425	9-534	31227	16	24-437	9-835
30970	37	12-698	7-304	31042	17	3-146	8-906	31114	20	20-248	8-272	31186	15	8-466	9-862	31228	37	24-534	9-240
30971	17	12-701	7-084	31043	14	3-474	8-468	31115	15	20-418	8-331	31187	15	8-682	9-640	31229	24	24-632	9-542
30972	14	12-730	7-686	31044	17	3-544	8-073	31116	38	20-773	8-286	31188	19	8-704	9-238	31230	12	24-665	9-092
30973	23	12-986	7-484	31045	15	3-606	8-296	31117*	37	21-149	8-478	31189	32	8-775	9-142	31231	30	25-316	9-769
30974	21	13-108	7-403	31046	15	4-260	8-626	31118	24	21-154	8-956	31190	22	9-056	9-634	31232	20	25-450	9-394
30975	12	13-136	7-184	31047	13	4-584	8-597	31119	20	21-644	8-410	31191	14	9-078	9-894	31233	12	25-934	9-309
30976	11	13-139	7-055	31048	21	4-724	8-776	31120	13	22-030	8-276	31192	25	9-172	9-818	31234	13	0-954	10-524
30977	15	13-190	7-225	31049	18	5-574	8-664	31121	39	22-245	8-040	31193	17	9-230	9-544	31235	22	1-043	10-076
30978	20	13-390	7-127	31050	14	5-618	8-284	31122	23	22-475	8-416	31194	15	9-504	9-714	31236	24	1-156	10-480
30979	14	13-878	7-221	31051	19	6-082	8-276	31123	13	22-576	8-728	31195	14	9-833	9-319	31237	15	1-207	10-512
30980	17	14-080	7-856	31052	16	6-094	8-695	31124	11	22-762	8-990	31196	15	10-166	9-584	31238	10	1-827	10-334
30981	21	14-186	7-225	31053	13	6-206	8-688	31125	16	22-815	8-865	31197	17	10-270	9-344	31239	57	2-024	10-185
30982	13	14-404	7-532	31054	13	6-376	8-484	31126	12	23-023	8-088	31198	20	10-644	9-152	31240	20	2-046	10-624
30983	12	14-666	7-054	31055	10	6-586	8-565	31127	15	23-172	8-198	31199	12	10-666	9-100	31241	22	2-164	10-044
30984	17	14-958	7-398	31056	28	6-966	8-345	31128	26	23-541	8-076	31200	10	11-418	9-202	31242	12	2-400	10-150
30985*	70	15-062	7-420	31057	20	6-995	8-872	31129	20	23-548	8-033	31201	12	11-646	9-697	31243	20	2-656	10-691
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31017	36	20-242	7-688	3															



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31316	24	10.166	10.020	31388	38	23.662	10.774	31460	12	11.080	11.028	31532	26	1.636	12.336	31604	22	12.343	12.006
31317	11	10.222	10.570	31389	14	24.236	10.914	31461	15	11.230	11.980	31533	19	1.676	12.844	31605	21	12.485	12.114
31318	14	10.414	10.467	31390	12	24.589	10.140	31462	16	11.276	11.414	31534	14	1.950	12.416	31606	17	12.561	12.193
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31320	18	10.723	10.672	31392	18	24.846	10.214	31464	15	11.728	11.165	31536	14	2.111	12.824	31608	9	12.861	12.044
31321	16	10.735	10.759	31393	10	25.198	10.596	31465	16	11.744	11.576	31537	20	2.125	12.580	31609	13	13.306	12.046
31322	20	10.884	10.585	31394	11	25.311	10.630	31466	20	13.053	11.762	31538	13	2.286	12.722	31610	15	14.272	12.529
31323	15	10.928	10.796	31395	15	25.424	10.973	31467	12	13.444	11.306	31539	15	2.288	12.916	31611	14	14.314	12.585
31324	21	11.115	10.820	31396	13	25.456	10.867	31468	24	13.672	11.766	31540	14	2.304	12.988	31612	13	14.346	12.333
31325	15	11.339	10.364	31397	12	25.500	10.770	31469	17	13.844	11.910	31541	44	2.468	12.550	31613	14	15.176	12.966
31326	38	11.746	10.794	31398	11	25.534	10.386	31470	18	14.094	11.476	31542	20	2.528	12.186	31614	15	15.346	12.464
31327	61	11.816	10.104	31399	11	0.036	11.115	31471	15	14.182	11.377	31543	24	2.550	12.688	31615	10	15.366	12.064
31328	18	11.874	10.072	31400	12	0.074	11.214	31472	18	14.393	11.150	31544	12	2.566	12.468	31616	18	15.594	12.558
31329	11	12.184	10.068	31401	13	0.154	11.380	31473	21	14.750	11.964	31545	13	2.637	12.940	31617	18	16.226	12.304
31330	22	12.456	10.282	31402	16	0.481	11.228	31474	30	14.754	11.636	31546	19	2.687	12.412	31618	12	16.254	12.459
31331	8	12.466	10.974	31403	16	0.745	11.951	31475	10	15.174	11.357	31547	10	2.908	12.926	31619	14	16.446	12.756
31332	15	12.700	10.648	31404	16	0.849	11.556	31476	28	15.514	11.750	31548	28	3.061	12.384	31620	28	16.962	12.724
31333	8	12.836	10.467	31405	15	0.986	11.976	31477	32	16.295	11.328	31549	26	3.102	12.428	31621	38	17.030	12.174
31334	20	13.086	10.456	31406	15	1.201	11.326	31478	36	16.501	11.754	31550	19	3.344	12.384	31622	17	17.231	12.334
31335	12	13.097	10.964	31407	16	1.205	11.676	31479	9	17.015	11.965	31551	16	3.348	12.194	31623	13	17.501	12.320
31336	18	13.131	10.424	31408	20	1.231	11.364	31480	13	17.086	11.555	31552	26	3.503	12.930	31624	17	17.562	12.684
31337	14	13.207	10.294	31409	18	1.828	11.584	31481	23	17.374	11.892	31553	19	3.624	12.386	31625	57	17.664	12.238
31338	14	13.396	10.545	31410	12	1.838	11.724	31482	17	17.764	11.885	31554	20	3.788	12.414	31626	20	17.696	12.314
31339	14	13.566	10.652	31411	21	1.880	11.906	31483	18	17.894	11.426	31555	15	3.937	12.734	31627	10	17.776	12.264
31340	20	13.772	10.984	31412	12	2.206	11.996	31484	14	17.904	11.604	31556	41	4.001	12.782	31628	9	17.925	12.902
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31347	11	14.834	10.586	31419	20	2.664	11.442	31491	11	18.593	11.224	31563	18	5.407	12.434	31635	15	19.327	12.359
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31355	14	17.871	10.474	31427	21	4.091	11.174	31499	18	19.460	11.944	31571	15	6.250	12.588	31643	18	20.940	12.466
31356	20	17.962	10.714	31428	37	4.140	11.024	31500	37	19.562	11.968	31572	15	6.326	12.024	31644	15	21.553	12.246
31357	20	18.082	10.394	31429	15	4.434	11.984	31501	10	19.577	11.174	31573	20	6.330	12.928	31645	19	21.864	12.734
31358	23	18.118	10.048	31430	16	5.085	11.776	31502	16	19.679	11.834	31574	21	6.514	12.365	31646	17	22.648	12.361
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31364	13	19.074	10.305	31436	42	5.806	11.206	31508	20	21.986	11.845	31580	39	7.347	12.488	31652	28	23.256	12.956
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31700	11	7-814	13-860	31772	20	22-712	13-216	31844	12	7-894	14-744	31916	15	21-456	14-126	31988	15	10-010	15-877
31701	22	7-878	13-576	31773*	38	22-774	13-626	31845	14	8-036	14-164	31917	16	21-968	14-745	31989	21	10-214	15-626
31702	14	7-996	13-486	31774	22	22-942	13-054	31846	19	8-104	14-783	31918	13	22-150	14-974	31990	19	10-558	15-236
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31704	36	8-006	13-884	31776	27	23-272	13-794	31848	16	8-196	14-316	31920	19	22-645	14-514	31992	22	11-299	15-599
31705	12	8-124	13-520	31777	16	23-346	13-899	31849	20	8-289	14-720	31921	28	22-706	14-368	31993	30	11-326	15-794
31706	15	8-174	13-160	31778	23	23-594	13-514	31850	30	8-507	14-183	31922	21	23-274	14-344	31994	23	11-376	15-118
31707	16	8-472	13-438	31779	24	23-612	13-594	31851	17	8-746	14-815	31923	28	23-435	14-996	31995	10	11-456	15-352
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31709	37	8-998	13-039	31781	18	24-000	13-918	31853	17	9-304	14-774	31925	17	23-664	14-338	31997	10	12-282	15-264
31710	14	9-262	13-174	31782	20	24-094	13-434	31854	23	9-426	14-864	31926	19	23-833	14-868	31998	11	12-410	15-896
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31715	17	10-285	13-516	31787	14	24-984	13-562	31859	19	10-525	14-238	31931	20	25-055	14-246	32003	15	13-388	15-126
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31717	15	10-312	13-174	31789	14	25-274	13-404	31861	21	10-634	14-033	31933	20	25-532	14-342	32005	10	13-650	15-205
31718*	98	10-676	13-035	31790	17	25-313	13-073	31862	18	10-663	14-315	31934	14	25-876	14-008	32006	14	14-234	15-726
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31720	15	11-474	13-401	31792	12	25-393	13-417	31864	11	10-724	14-796	31936	17	0-158	15-478	32008	13	14-620	15-616
31721	37	11-912	13-966	31793	17	25-398	13-180	31865	12	10-955	14-506	31937	22	0-224	15-634	32009	40	14-886	15-024
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31733	23	13-771	13-966	31805	16	0-534	14-815	31877	9	14-736	14-522	31949	19	2-270	15-472	32021	36	17-648	15-444
31734	15	13-774	13-174	31806	13	0-584	14-756	31878	14	15-162	14-780	31950	24	2-276	15-138	32022	10	17-899	15-328
31735	9	13-929	13-132	31807	15	0-674	14-918	31879	24	15-204	14-401	31951	37	2-284	15-484	3202			



32034	9	20.456	15.553	32106	24	9.318	16.559	32178	15	21.090	16.176	32250	14	7.654	17.531	32322	28	21.401	17.324
32035	19	20.644	15.675	32107	20	9.457	16.616	32179	20	21.130	16.216	32251	11	7.694	17.854	32323	13	21.447	17.272
32036	24	21.063	15.974	32108	20	9.798	16.164	32180	16	21.224	16.744	32252	13	8.116	17.838	32324	15	21.814	17.876
32037	20	21.094	15.636	32109	10	10.316	16.135	32181	13	21.326	16.274	32253	19	9.154	17.156	32325	11	22.177	17.854
32038	12	21.326	15.726	32110	14	10.324	16.045	32182	37	21.660	16.632	32254	15	9.162	17.516	32326	24	22.208	17.810
32039	16	21.816	15.056	32111	20	10.579	16.836	32183	28	21.864	16.218	32255	18	9.586	17.576	32327	13	22.326	17.740
32040	10	22.152	15.457	32112	25	10.614	16.842	32184	12	22.086	16.106	32256	18	9.618	17.196	32328	13	22.344	17.494
32041	13	22.164	15.386	32113	31	10.842	16.525	32185	13	22.412	16.114	32257	35	9.781	17.334	32329	17	22.380	17.048
32042	17	22.276	15.320	32114	22	10.928	16.916	32186	16	22.487	16.806	32258	27	9.984	17.666	32330	15	22.406	17.656
32043	13	22.426	15.596	32115	13	10.959	16.325	32187	17	22.540	16.714	32259	23	10.136	17.578	32331	35	22.489	17.841
32044	48	22.573	15.234	32116	14	11.474	16.763	32188	18	22.700	16.664	32260	16	10.315	17.286	32332	14	22.492	17.988
32045	15	22.890	15.115	32117	17	11.527	16.504	32189	20	22.800	16.147	32261	18	10.514	17.814	32333	18	23.046	17.996
32046	34	23.262	15.014	32118	23	11.634	16.762	32190	26	22.922	16.512	32262	31	10.698	17.102	32334	30	23.085	17.032
32047	10	23.269	15.794	32119	13	11.714	16.046	32191	13	22.926	16.381	32263	20	10.732	17.178	32335	15	23.134	17.296
32048	20	23.460	15.011	32120	13	11.786	16.834	32192	14	22.972	16.617	32264	20	11.076	17.684	32336	22	23.176	17.376
32049	18	23.556	15.392	32121	25	12.234	16.592	32193	11	23.045	16.326	32265	9	11.245	17.336	32337	20	23.424	17.649
32050	19	24.392	15.391	32122	13	12.375	16.114	32194	24	23.336	16.886	32266	15	11.355	17.706	32338	24	23.459	17.184
32051	14	24.444	15.615	32123	15	12.458	16.286	32195	17	23.354	16.192	32267	28	11.552	17.853	32339	12	23.806	17.044
32052	18	24.730	15.516	32124	37	12.686	16.496	32196	22	23.448	16.686	32268	24	11.826	17.782	32340	17	23.916	17.592
32053	14	25.120	15.234	32125	19	12.926	16.806	32197	16	23.658	16.742	32269	16	12.249	17.154	32341	13	23.944	17.372
32054	13	25.232	15.105	32126	15	13.071	16.666	32198	12	23.956	16.564	32270	12	12.404	17.524	32342	20	24.356	17.234
32055	12	25.235	15.366	32127	34	13.144	16.882	32199	12	23.984	16.563	32271	14	12.493	17.384	32343	18	25.160	17.168
32056	19	25.400	15.668	32128	14	13.155	16.896	32200	24	24.093	16.096	32272	11	12.514	17.687	32344	16	25.875	17.725
32057	39	0.199	16.340	32129	18	13.442	16.004	32201	14	24.166	16.317	32273	15	12.529	17.795	32345	15	0.089	18.206
32058	16	0.474	16.902	32130	14	13.724	16.453	32202	20	24.238	16.714	32274	16	12.724	17.566	32346	16	0.150	18.110
32059	22	0.538	16.634	32131	19	13.736	16.483	32203	13	25.266	16.600	32275	14	12.914	17.556	32347	20	0.576	18.273
32060	20	1.104	16.384	32132	20	13.870	16.197	32204	32	25.484	16.886	32276	19	12.934	17.138	32348	15	0.776	18.674
32061	13	1.290	16.905	32133	16	13.906	16.690	32205	15	25.864	16.396	32277	20	12.949	17.142	32349	24	1.016	18.280
32062	16	1.450	16.837	32134	13	13.944	16.741	32206	17	0.458	17.796	32278	20	13.008	17.376	32350	27	1.036	18.636
32063	22	1.464	16.416	32135	15	14.046	16.555	32207	13	0.470	17.464	32279	31	13.030	17.074	32351	16	1.072	18.276
32064	9	1.488	16.579	32136	13	14.164	16.645	32208	13	0.480	17.471	32280	24	13.586	17.783	32352	18	1.231	18.577
32065	20	1.636	16.446	32137	13	14.171	16.965	32209	20	0.707	17.814	32281	22	13.656	17.176	32353	23	1.267	18.972
32066	15	1.676	16.314	32138	28	14.173	16.506	32210	22	0.930	17.526	32282	14	13.746	17.576	32354	19	1.394	18.834
32067	21	2.006	16.066	32139	21	14.235	16.914	32211	20	1.144	17.024	32283	22	14.548	17.786	32355	12	1.667	18.774
32068	15	2.037	16.995	32140	15	14.350	16.765	32212	21	1.662	17.485	32284	18	14.614	17.137	32356	12	1.814	18.344
32069	17	2.328	16.991	32141	39	14.700	16.574	32213	23	2.047	17.581	32285	20	14.686	17.694	32357	20	1.825	17.764
32070	20	2.580	16.092	32142	11	14.830	16.981	32214	17	2.290	17.764	32286	17	14.844	17.901	32358	13	1.951	18.624
32071	21	2.690	16.950	32143	20	15.114	16.044	32215	12	2.342	17.646	32287	16	15.072	17.222	32359	15	1.954	18.738
32072	22	2.784	16.426	32144	15	15.916	16.894	32216	16	2.391	17.006	32288	15	15.326	17.516	32360	26	2.152	18.872
32073	15	2.904	16.728	32145	11	16.026	16.762	32217	22	2.394	17.824	32289	12	15.554	17.438	32361	39	2.296	18.122
32074	18	3.066	16.524	32146	12	16.074	16.414	32218	20	2.654	17.254	32290	15	15.854	17.106	32362	20	2.421	18.616
32075	15	3.111	16.445	32147	19	16.159	16.974	32219	18	2.881	17.384	32291	14	15.930	17.084	32363	14	2.455	18.822
32076	13	3.226	16.843	32148	23	16.164	16.118	32220	20	3.148	17.104	32292	20	16.551	17.674	32364	12	2.677	18.836
32077	21	3.258	16.108	32149	18	16.186	16.058	32221	10	3.416	17.103	32293	22	16.796	17.258	32365	19	3.160	18.832
32078	20	3.406	16.544	32150	48	16.221	16.271	32222	18	3.524	17.194	32294	14	16.809	17.314	32366	11	3.166	18.558
32079	21	3.756	16.020	32151	14	16.291	16.298	32223	11	3.856	17.434	32295	13	16.814	17.588	32367	14	3.208	18.556
32080	15	3.816	16.344	32152	12	16.642	16.478	32224	20	4.038	17.730	32296	20	16.910	17.805	32368	12	3.331	18.077
32081	16	3.834	16.692	32153	24	16.670	16.910	32225	39	4.050	17.464	32297	19	17.058	17.182	32369	37	3.878	18.448
32082	44	4.036	16.324	32154	18	16.736	16.550	32226	20	4.058	17.220	32298	13	17.824	17.394	32370	12	4.193	18.166
32083	17	4.436	16.854	32155	11	17.088	16.336	32227	19	4.068	17.820	32299	18	17.968	17.440	32371	26	4.554	18.644
32084	38	4.619	16.064	32156	16	17.128	16.676	32228	12	4.095	17.766	32300	20	18.108	17.594	32372	10	4.805	18.825
32085	15	4.716	16.554	32157	12	17.430	16.056	32229	21	4.496	17.744	32301	23	18.206	17.846	32373	22	5.088	18.513
32086	16	4.736	16.265	32158	15	17.795	16.743	32230	15	4.563	17.774	32302	19	18.245	17.077	32374	21	5.116	18.796
32087	19	4.750	16.058	32159	20	17.875	16.735	32231	11	4.754	17.152	32303	9	18.389	17.962	32375	21	5.306	18.656
32088	26	4.856	16.396	32160	13	17.934	16.256	32232	20	5.124	17.314	32304	17	18.974	17.486	32376	12	5.378	18.152
32089	23	4.995	16.754	32161	12	18.044	16.586	32233	34	5.158	17.776	32305	20	19.094	17.444	32377	12	5.799	18.784
32090	15	5.036	16.957	32162	44	18.254	16.695	32234	15	5.257	17.376	32306	12	19.234	17.501	32378	15	6.108	18.562
32091	9	5.184	16.165	32163	39	18.258	16.675	32235	38	5.426	17.998	32307	10	19.246	17.826	32379	19	6.162	18.874
32092	18	5.346	16.756	32164	56	18.552	16.055	32236	10	5.575	17.437	32308	13	19.716	17.318	32380	10	6.185	18.337
32093	13	5.421	16.950	32165	21	18.760	16.102	32237	17	6.122	17.538	32309	18	19.816	17.636	32381	22	6.234	18.458
32094	10	5.718	16.656	32166	11	18.874	16.140	32238	15	6.350	17.254	32310	20	19.878	17.184	32382	15	6.254	18.366
32095	10	5.944	16.256	32167	12	19.166	16.544	32239	20	6.409	17.284	32311	36	19.880	17.086				



32394	14	7.990	18.935	32466	20	21.198	18.543	32538	24	8.216	19.434	32610	14	21.832	19.382	32682	14	8.408	20.256
32395	17	8.044	18.814	32467	23	21.354	18.298	32539	24	8.326	19.314	32611	21	22.066	19.035	32683	15	8.794	20.426
32396	37	8.100	18.816	32468	16	21.592	18.434	32540	12	8.664	19.300	32612	15	22.370	19.455	32684	19	9.052	20.616
32397	13	8.326	18.620	32469	20	22.004	18.354	32541	15	8.764	19.867	32613	13	22.126	19.796	32685	20	9.208	20.784
32398	11	8.361	18.348	32470	16	22.034	18.184	32542	21	8.794	19.702	32614	19	22.503	19.288	32686	14	9.536	20.042
32399	12	8.766	18.354	32471	16	22.350	18.666	32543	18	9.002	19.291	32615	20	22.195	19.586	32687	12	9.626	20.186
32400	10	8.774	18.495	32472	23	22.372	18.206	32544	18	9.554	19.476	32616	14	22.856	19.336	32688	15	9.866	20.326
32401	14	8.800	18.144	32473	12	22.396	18.034	32545	13	9.587	19.196	32617	24	22.963	19.104	32689	12	9.946	20.696
32402	68	8.906	18.678	32474	12	22.717	18.611	32546	18	9.596	19.016	32618	20	23.134	19.086	32690	14	10.394	20.516
32403	11	9.156	18.446	32475	20	22.813	18.126	32547	20	9.635	19.402	32619	11	23.142	19.590	32691	23	10.481	20.113
32404	32	9.716	18.234	32476	21	22.890	18.528	32548	16	10.614	19.060	32620	17	23.256	19.134	32692	20	11.232	20.295
32405	10	9.902	18.656	32477	15	22.906	18.664	32549	12	10.670	19.945	32621	12	23.516	19.774	32693	15	11.384	20.055
32406	20	10.354	18.703	32478	15	23.089	18.462	32550	12	10.697	19.998	32622	20	23.535	19.773	32694	20	11.451	20.736
32407	14	10.454	18.916	32479	39	23.388	18.658	32551	20	10.716	19.177	32623	18	23.575	19.516	32695	19	11.460	20.258
32408	15	10.890	18.814	32480	19	23.986	18.574	32552	20	11.066	19.710	32624	24	23.599	19.636	32696	17	11.512	20.740
32409	16	11.056	18.636	32481	19	24.098	18.208	32553	17	11.252	19.274	32625	22	23.817	19.816	32697	17	11.694	20.442
32410	23	11.098	18.136	32482	28	24.102	18.016	32554	13	11.421	19.318	32626	31	24.125	19.694	32698	11	11.694	20.175
32411	13	12.194	18.135	32483	21	24.170	18.604	32555	20	11.510	19.407	32627	12	24.311	19.305	32699	12	11.836	20.202
32412	11	12.236	18.355	32484	18	24.296	18.729	32556	11	11.646	19.056	32628	20	24.690	19.259	32700	15	11.920	20.116
32413	10	12.444	18.062	32485	10	24.966	18.704	32557	15	11.649	19.456	32629	15	25.214	19.366	32701	38	11.981	20.616
32414	12	12.660	18.306	32486	23	25.796	18.088	32558	13	11.833	19.376	32630	13	25.355	19.745	32702	16	12.786	20.262
32415	20	12.738	18.224	32487	35	0.226	19.106	32559	21	11.842	19.221	32631	38	25.854	19.604	32703	26	12.864	20.906
32416	19	12.778	18.474	32488	14	0.618	19.766	32560	36	12.141	19.000	32632	21	25.854	19.528	32704	10	12.964	20.497
32417	48	12.827	18.546	32489	12	1.006	19.538	32561	20	12.358	19.530	32633	18	0.086	20.608	32705	11	12.964	20.294
32418	21	12.846	18.329	32490	20	1.206	19.304	32562	22	12.668	19.906	32634	24	0.087	20.042	32706	14	13.146	20.844
32419	17	13.030	18.394	32491	17	1.299	19.492	32563	14	12.686	19.826	32635	12	1.378	20.894	32707	16	13.208	20.686
32420	10	13.190	18.876	32492	39	1.578	19.196	32564	68	12.937	19.352	32636	14	1.406	20.084	32708	17	13.222	20.442
32421	17	13.574	18.010	32493	44	1.616	19.572	32565	32	13.026	19.956	32637	19	1.426	20.188	32709	21	13.275	20.876
32422	21	13.580	18.719	32494	20	1.735	19.474	32566	22	13.072	19.878	32638	14	1.528	20.733	32710	25	13.316	20.694
32423	20	13.926	18.706	32495	19	2.106	19.174	32567	14	13.072	19.744	32639	13	1.584	20.178	32711	18	13.368	20.300
32424	10	14.026	18.976	32496	12	2.492	19.316	32568	18	13.090	19.462	32640	13	1.694	20.185	32712	11	13.620	20.108
32425	20	14.128	18.914	32497	24	2.966	19.506	32569	15	13.154	19.700	32641	28	1.830	20.314	32713	20	13.643	20.844
32426	12	14.173	18.786	32498	12	3.176	19.656	32570	10	13.156	19.845	32642	17	2.096	20.586	32714	18	14.202	20.827
32427	20	14.204	18.463	32499	23	3.284	19.406	32571	25	13.194	19.916	32643	17	2.260	20.388	32715	17	14.328	20.593
32428	13	14.456	18.494	32500	13	3.368	19.718	32572	12	13.364	19.087	32644	30	2.634	20.952	32716	32	14.662	20.306
32429	14	14.626	18.256	32501	23	3.804	19.540	32573	20	13.366	19.219	32645	19	2.702	20.236	32717	13	14.827	20.298
32430	16	14.730	18.908	32502	18	4.050	19.352	32574	10	13.368	19.875	32646	70	2.846	20.982	32718	19	15.110	20.806
32431	18	14.754	18.916	32503	20	4.154	19.166	32575	15	13.580	19.545	32647	38	3.356	20.645	32719	14	15.640	20.106
32432	14	14.795	18.364	32504	31	4.194	19.879	32576	10	13.660	19.804	32648	36	3.388	20.238	32720	12	15.834	20.827
32433	18	14.800	18.092	32505	16	4.264	19.135	32577	22	13.850	19.449	32649	30	3.390	20.474	32721	17	16.044	20.424
32434	12	14.916	18.375	32506	31	4.265	19.814	32578	10	13.856	19.296	32650	38	3.488	20.051	32722	10	16.268	20.116
32435	15	14.924	18.446	32507	22	4.357	19.225	32579	14	14.394	19.974	32651	30	3.836	20.009	32723	12	16.324	20.673
32436	16	14.929	18.736	32508	20	4.400	19.782	32580	13	14.516	19.522	32652	20	3.906	20.075	32724	20	16.410	20.827
32437	13	15.023	18.259	32509	30	4.408	19.192	32581	20	14.560	19.406	32653	24	4.090	20.006	32725	20	16.570	20.997
32438	11	15.596	18.940	32510	46	4.444	19.995	32582	23	14.773	19.834	32654	19	4.226	20.100	32726	14	16.583	20.045
32439	13	15.722	18.946	32511	21	4.477	19.977	32583	11	15.134	19.216	32655	21	4.281	20.927	32727	12	16.714	20.574
32440	14	15.762	18.234	32512	14	4.714	19.722	32584	10	15.190	19.123	32656	22	4.524	20.854	32728	10	16.818	20.794
32441	32	15.984	18.283	32513	16	4.776	19.576	32585	11	15.508	19.380	32657	19	4.564	20.682	32729	22	16.868	20.386
32442	17	16.354	18.786	32514	20	4.794	19.264	32586	17	15.668	19.186	32658	18	4.686	20.325	32730	15	17.005	20.353
32443	11	16.436	18.384	32515	24	4.805	19.036	32587	16	15.790	19.651	32659	26	4.749	20.206	32731	23	17.064	20.806
32444	17	16.539	18.856	32516	35	5.480	19.274	32588	16	16.314	19.872	32660	15	4.856	20.036	32732	10	17.147	20.444
32445	14	16.770	18.444	32517	15	5.527	19.617	32589	15	16.390	19.804	32661	37	5.553	20.556	32733	20	17.234	20.339
32446	20	16.851	18.018	32518	22	5.664	19.544	32590	15	16.472	19.784	32662	19	5.644	20.277	32734	14	17.338	20.302
32447	14	16.958	18.687	32519	26	5.746	19.694	32591	20	16.714	19.592	32663	29	5.760	20.125	32735	23	17.436	20.344
32448	15	17.055	18.398	32520	20	5.812	19.866	32592	12	17.058	19.518	32664	16	5.836	20.198	32736	20	17.829	20.685
32449	15	17.236	18.595	32521	13	5.876	19.464	32593	19	17.068	19.720	32665	34	6.146	20.096	32737	28	17.860	20.935
32450	61	17.424	18.536	32522	21	5.960	19.679	32594	30	17.338	19.792	32666	24	6.337	20.174	32738	28	17.909	20.432
32451	20	17.658	18.264	32523	37	6.008	19.814	32595	19	17.524	19.250	32667	17	6.612	20.216	32739	24	18.140	20.824
32452	23	17.692	18.160	32524	36	6.304	19.831	32596	18	17.542	19.434	32668	39	6.654	20.168	32740	18	18.214	20.706
32453	18	17.792	18.336	32525	22	6.404	19.408	32597	19	17.734	19.584	32669	10	6.758	20.816	32741	15	18.532	20.916
32454	12	18.540	18.492	32526	14	6.518	19.924	32598	16	18.060	19.556	32670	44	6.795	20.918	32742	16	18.706	20.416
32455	22	18.692	18.903	32527	20	6.752	19.558	32599	14	18.236	19.359	32671	16	6.9					



32754	10	21.125	20.056	32826	21	7.820	21.347	32898	19	19.926	21.522	32970	12	12.450	22.470	33042	20	3.952	23.295
32755	14	21.134	20.874	32827	24	7.938	21.344	32899	20	20.027	21.938	32971	12	12.590	22.394	33043	14	4.056	23.795
32756	13	21.316	20.548	32828	16	8.071	21.866	32900	21	20.220	21.388	32972	17	12.976	22.202	33044	13	4.470	23.598
32757	13	21.352	20.436	32829	18	8.204	21.147	32901	13	20.527	21.413	32973	27	13.044	22.964	33045	14	4.576	23.244
32758	29	21.955	20.544	32830	31	8.214	21.875	32902	19	20.541	21.312	32974	12	13.100	22.130	33046	22	5.456	23.026
32759	22	22.066	20.362	32831	42	8.284	21.174	32903	20	20.950	21.060	32975	32	13.232	22.227	33047	23	5.638	23.128
32760	23	22.082	20.072	32832	13	8.344	21.446	32904	12	21.278	21.155	32976	20	13.256	22.925	33048	14	5.672	23.170
32761	18	22.084	20.902	32833	13	8.755	21.324	32905	17	22.046	21.756	32977	17	13.350	22.834	33049	28	6.022	23.824
32762	11	22.502	20.684	32834	74	8.986	21.446	32906	34	22.382	21.398	32978	17	13.600	22.512	33050	16	6.114	23.244
32763	12	22.541	20.772	32835	20	9.006	21.104	32907	20	23.036	21.974	32979	15	13.614	22.921	33051	29	6.116	23.816
32764	18	22.574	20.902	32836	17	9.181	21.408	32908	25	23.202	21.751	32980	17	14.164	22.788	33052	19	6.376	23.352
32765	13	22.636	20.363	32837	14	9.276	21.598	32909	28	24.206	21.296	32981	11	14.288	22.652	33053	22	6.446	23.492
32766	22	23.376	20.483	32838	18	9.735	21.284	32910	60	24.470	21.476	32982	17	14.407	22.341	33054	23	6.715	23.706
32767	22	23.522	20.199	32839	20	10.209	21.294	32911	20	24.894	21.752	32983	22	14.419	22.458	33055	13	6.964	23.706
32768	20	23.536	20.218	32840	27	10.271	21.036	32912	23	24.900	21.155	32984	18	14.492	22.346	33056	14	7.004	23.186
32769	16	23.804	20.626	32841	24	10.334	21.014	32913	17	0.333	22.194	32985	20	14.604	22.338	33057	22	7.451	23.746
32770	18	23.836	20.475	32842	12	10.424	21.462	32914	37	0.594	22.738	32986	10	14.904	22.034	33058	21	7.776	23.904
32771	20	23.902	20.126	32843	18	11.049	21.026	32915	20	0.810	22.716	32987	15	15.376	22.815	33059	20	7.825	23.366
32772	16	24.275	20.799	32844	17	11.100	21.991	32916	22	0.832	22.796	32988	12	15.413	22.742	33060	32	7.872	23.084
32773	13	24.304	20.476	32845	14	11.193	21.586	32917	14	0.855	22.661	32989	24	15.655	22.214	33061	16	8.400	23.094
32774	12	24.496	20.472	32846	15	11.266	21.294	32918	33	0.984	22.157	32990	18	15.666	22.394	33062	21	8.402	23.056
32775	14	25.154	20.158	32847	24	11.292	21.615	32919	24	1.076	22.316	32991	15	15.890	22.257	33063	44	8.460	23.598
32776	12	25.172	20.854	32848	19	11.354	21.289	32920	20	1.206	22.014	32992	13	16.286	22.801	33064	24	8.562	23.547
32777	20	25.416	20.040	32849	13	11.874	21.107	32921	33	1.474	22.744	32993	22	16.329	22.656	33065	23	8.626	23.416
32778	26	25.766	20.786	32850	15	11.896	21.406	32922	26	1.634	22.116	32994	13	16.358	22.282	33066	19	8.655	23.026
32779	21	25.796	20.284	32851	14	11.952	21.554	32923	66	2.126	22.215	32995	20	16.370	22.434	33067	13	8.916	23.194
32780	13	25.834	20.828	32852	10	12.085	21.214	32924	14	2.280	22.374	32996	17	16.414	22.856	33068	20	9.265	23.916
32781	29	25.862	20.956	32853	15	12.130	21.359	32925	14	2.834	22.208	32997	23	16.709	22.464	33069	25	9.634	23.816
32782	18	25.986	20.164	32854	24	12.434	21.376	32926	27	2.956	22.944	32998	12	16.879	22.044	33070	16	10.191	23.298
32783	37	1.164	21.388	32855	21	12.538	21.506	32927	28	3.416	22.606	32999	20	16.936	22.084	33071	23	10.304	23.917
32784	13	1.284	21.823	32856	19	12.616	21.404	32928	21	3.468	22.656	33000	23	16.952	22.796	33072	11	10.352	23.273
32785	21	1.480	21.796	32857	34	12.622	21.854	32929	19	3.556	22.136	33001	46	16.976	22.570	33073	11	10.687	23.583
32786	28	1.526	21.646	32858	17	13.216	21.817	32930	20	4.018	22.096	33002	31	17.224	22.716	33074	15	10.696	23.434
32787	22	1.544	21.026	32859	18	13.316	21.824	32931	11	4.066	22.224	33003	13	17.530	22.606	33075	13	10.766	23.234
32788	15	1.648	21.915	32860	37	13.398	21.414	32932	10	4.075	22.874	33004	19	17.846	22.828	33076	11	10.800	23.204
32789	40	1.826	21.184	32861	14	13.412	21.420	32933	12	4.094	22.816	33005	16	18.263	22.536	33077	14	10.876	23.370
32790	39	2.026	21.423	32862	21	13.468	21.047	32934	18	4.178	22.992	33006	12	18.276	22.767	33078	13	10.942	23.542
32791	17	2.166	21.044	32863	13	13.516	21.647	32935	20	4.210	22.040	33007	19	18.316	22.202	33079	23	11.147	23.296
32792	24	2.196	21.327	32864	19	13.684	21.522	32936	22	4.246	22.989	33008	13	19.435	22.814	33080	74	11.168	23.490
32793	14	2.314	21.203	32865	36	13.690	21.954	32937	16	4.416	22.851	33009	21	19.767	22.394	33081	18	11.235	23.865
32794	21	2.329	21.026	32866	24	14.380	21.004	32938	13	4.488	22.326	33010	16	20.041	22.826	33082	23	11.440	23.633
32795	13	2.886	21.168	32867	21	14.414	21.206	32939	19	4.870	22.951	33011	17	20.146	22.816	33083	22	11.626	23.667
32796	20	3.134	21.943	32868	13	14.443	21.191	32940	24	5.530	22.012	33012	20	20.580	22.506	33084	31	11.850	23.426
32797	20	3.240	21.580	32869	20	14.952	21.333	32941	17	5.746	22.247	33013	16	20.817	22.766	33085	21	11.915	23.016
32798	38	3.407	21.975	32870	19	15.052	21.736	32942	20	6.366	22.327	33014	20	21.314	22.678	33086	20	12.034	23.834
32799	28	3.692	21.706	32871	20	15.354	21.052	32943	19	6.556	22.626	33015	17	21.500	22.166	33087	22	12.182	23.469
32800	23	3.730	21.177	32872	15	15.818	21.414	32944	23	6.630	22.382	33016	20	21.750	22.864	33088	20	12.208	23.002
32801	20	3.762	21.477	32873	20	15.856	21.041	32945	17	6.814	22.028	33017	22	23.104	22.006	33089	18	12.256	23.066
32802	16	3.823	21.683	32874	21	15.974	21.602	32946	17	6.844	22.478	33018	15	23.328	22.928	33090	26	12.284	23.968
32803	19	4.224	21.428	32875	16	16.355	21.168	32947	20	7.044	22.406	33019	20	23.393	22.210	33091	14	12.776	23.701
32804	32	4.688	21.381	32876	17	16.437	21.765	32948	19	7.114	22.424	33020	18	23.730	22.170	33092	19	12.822	23.502
32805	14	4.796	21.215	32877	17	16.600	21.658	32949	12	7.862	22.175	33021	37	25.036	22.575	33093	29	12.934	23.648
32806	25	4.934	21.693	32878	19	16.738	21.098	32950	21	7.942	22.806	33022	19	25.176	22.795	33094	12	13.376	23.478
32807	24	4.994	21.720	32879	28	17.074	21.344	32951	20	8.022	22.446	33023	21	25.946	22.654	33095	21	13.462	23.306
32808	19	5.034	21.756	32880	11	17.074	21.034	32952	23	8.086	22.564	33024	31	0.026	23.264	33096	17	13.588	23.454
32809	26	5.458	21.244	32881	11	17.316	21.096	32953	19	8.175	22.382	33025	31	0.046	23.915	33097	21	13.622	23.878
32810	14	5.515	21.982	32882	15	17.418	21.521	32954	21	8.444	22.639	33026	77	0.534	23.988	33098	28	13.738	23.046
32811	17	5.596	21.536	32883	12	17.494	21.712	32955	20	8.484	22.156	33027	11	0.675	23.425	33099	16	14.670	23.434
32812	19	5.666	21.124	32884	17	17.566	21.826	32956	22	8.647	22.266	33028	21	0.824	23.193	33100	14	14.762	23.488
32813	30	5.732	21.282	32885	26	17.834	21.784	32957	18	8.795	22.306	33029	18	1.066	23.721	33101	14	14.851	23.566
32814	16	5.874	21.416	32886	13	18.016	21.562	32958	11	8.894	22.818	33030	23	1.166	23.658	33102	26	15.466	23.495
32815	13	5.976	21.760	32887	17	18.246	21.088	32959	20	9.015	22.496	33031	17	1.250	23.014	3			



33114	17	17-284	23-464	33186	26	7-196	24-314	33258	20	23-127	24-761	33330	27	12-256	25-602
33115	19	17-396	23-477	33187	19	7-574	24-985	33259	32	23-308	24-498	33331	12	12-404	25-206
33116	14	17-431	23-038	33188	24	7-616	24-016	33260	32	23-355	24-908	33332	21	12-625	25-694
33117	24	17-614	23-244	33189	16	8-044	24-318	33261	18	23-472	24-727	33333	21	12-806	25-306
33118	19	17-874	23-481	33190	17	8-045	24-236	33262	17	23-941	24-196	33334	17	13-216	25-068
33119	23	17-934	23-606	33191	21	8-655	24-613	33263	30	24-154	24-808	33335	40	13-318	25-576
33120	12	17-940	23-095	33192	8	8-816	24-308	33264	13	24-216	24-113	33336	17	13-925	25-806
33121	38	18-135	23-748	33193	20	8-974	24-944	33265	22	24-603	24-860	33337	13	13-964	25-910
33122	12	18-374	23-882	33194	38	9-006	24-425	33266	38	25-180	24-820	33338	20	14-101	25-914
33123	23	18-808	23-974	33195	19	9-054	24-534	33267	14	25-190	24-588	33339	21	14-244	25-376
33124	11	19-581	23-034	33196	38	9-156	24-022	33268	22	25-388	24-972	33340	16	14-276	25-401
33125	31	19-718	23-133	33197	27	9-214	24-857	33269	19	25-498	24-042	33341	18	14-478	25-375
33126	20	20-017	23-134	33198	19	10-020	24-400	33270	19	25-910	24-014	33342	14	14-709	25-767
33127	32	20-449	23-078	33199	22	10-054	24-764	33271	15	0-490	25-244	33343	40	14-801	25-611
33128	20	20-880	23-266	33200	16	10-126	24-138	33272	14	0-556	25-008	33344	26	15-094	25-968
33129	28	21-058	23-638	33201	17	10-574	24-894	33273	17	1-014	25-164	33345	15	15-126	25-694
33130	30	21-166	23-873	33202	16	10-698	24-004	33274	22	1-134	25-259	33346	15	15-470	25-384
33131	15	21-349	23-473	33203	14	11-218	24-144	33275	13	2-024	25-864	33347	26	15-588	25-284
33132	23	21-642	23-148	33204	12	11-276	24-984	33276	51	2-596	25-344	33348	26	15-770	25-126
33133	17	21-984	23-854	33205	22	11-332	24-549	33277	15	2-746	25-974	33349	58	15-834	25-214
33134	17	22-086	23-846	33206	37	11-348	24-816	33278	28	3-334	25-444	33350	17	16-260	25-289
33135	20	22-179	23-926	33207	9	12-064	24-106	33279	14	3-347	25-085	33351	11	16-315	25-722
33136	17	22-463	23-394	33208	32	12-134	24-451	33280	20	3-477	25-510	33352	17	16-726	25-786
33137	18	22-825	23-548	33209	18	12-286	24-065	33281	38	3-676	25-830	33353	21	16-965	25-567
33138	12	23-084	23-932	33210	12	12-321	24-736	33282	14	3-799	25-780	33354	25	16-968	25-154
33139	27	23-248	23-793	33211	16	12-404	24-926	33283	11	3-974	25-144	33355	17	17-268	25-916
33140	20	23-478	23-563	33212	18	12-496	24-705	33284	29	4-058	25-924	33356	10	17-272	25-324
33141	14	23-944	23-434	33213	16	12-544	24-252	33285	18	4-068	25-744	33357	28	17-302	25-451
33142	22	23-974	23-806	33214	9	12-716	24-906	33286	23	4-084	25-616	33358	17	17-326	25-024
33143	39	25-424	23-748	33215	23	13-064	24-324	33287	13	4-257	25-748	33359	31	17-534	25-424
33144	17	25-765	23-376	33216	10	13-166	24-633	33288	24	4-475	25-534	33360	18	17-765	25-952
33145	20	25-927	23-002	33217	13	13-217	24-094	33289	11	4-531	25-136	33361	11	17-826	25-046
33146	19	25-940	23-977	33218	19	13-226	24-590	33290	16	4-536	25-256	33362	21	17-855	25-412
33147	37	0-052	24-203	33219	12	13-960	24-177	33291	17	4-714	25-556	33363	13	18-024	25-511
33148	13	0-877	24-287	33220	12	14-063	24-724	33292	76	4-846	25-502	33364	15	19-124	25-060
33149	38	0-923	24-116	33221	17	14-144	24-962	33293	17	4-888	25-314	33365	34	19-152	25-220
33150	38	0-988	24-096	33222	16	14-423	24-012	33294	37	5-015	25-380	33366	23	19-814	25-422
33151	11	1-094	24-975	33223	12	14-586	24-054	33295	19	5-275	25-453	33367	16	20-886	25-610
33152	13	1-100	24-125	33224	22	14-654	24-888	33296	37	5-370	25-165	33368	32	21-105	25-438
33153	12	1-519	24-536	33225	20	14-716	24-615	33297	11	5-605	25-441	33369	27	21-606	25-074
33154	15	1-684	24-054	33226	24	14-774	24-112	33298	12	5-642	25-080	33370	13	22-382	25-606
33155	23	1-715	24-696	33227	22	15-009	24-846	33299	14	5-936	25-736	33371	21	22-576	25-509
33156	16	1-761	24-476	33228	19	15-156	24-431	33300	38	5-970	25-790	33372	68	23-098	25-484
33157	54	2-196	24-836	33229	54	15-264	24-069	33301	25	6-334	25-936	33373	25	23-438	25-142
33158	21	2-264	24-146	33230	14	15-266	24-612	33302	14	6-368	25-377	33374	15	23-500	25-996
33159	38	2-384	24-408	33231	11	15-564	24-296	33303	36	6-419	25-116	33375	17	23-565	25-783
33160	23	2-414	24-397	33232	22	15-702	24-776	33304	16	6-564	25-803	33376	28	23-805	25-618
33161	14	2-902	24-004	33233	17	16-326	24-702	33305	46	6-641	25-836	33377	30	23-872	25-424
33162	23	3-014	24-097	33234	19	16-474	24-326	33306	21	6-850	25-014	33378	24	23-912	25-827
33163	18	3-106	24-916	33235	28	16-516	24-768	33307	11	6-916	25-206	33379	27	24-064	25-610
33164	16	3-110	24-388	33236	34	16-871	24-356	33308	16	7-432	25-242	33380	37	24-163	25-679
33165	14	3-164	24-462	33237	24	17-292	24-756	33309	15	7-845	25-782	33381	11	24-806	25-192
33166	28	3-273	24-125	33238	19	17-313	24-869	33310	21	8-104	25-126	33382	11	25-180	25-374
33167	22	3-466	24-564	33239	14	17-334	24-162	33311	16	8-370	25-776	33383	22	25-312	25-718
33168	12	3-771	24-182	33240	18	17-577	24-696	33312	23	9-564	25-382				
33169	25	3-808	24-536	33241	21	18-129	24-094	33313	24	9-749	25-336				
33170	22	4-172	24-702	33242	36	18-186	24-183	33314	14	10-054	25-487				
33171	16	4-326	24-105	33243	20	18-562	24-421	33315	74	10-134	25-045				
33172	28	4-354	24-399	33244	15	18-632	24-224	33316	20	10-292	25-138				
33173	22	4-907	24-746	33245	22	18-798	24-082	33317	14	10-689	25-966				
33174	15	4-972	24-356	33246	13	19-286	24-835	33318	20	10-785	25-134				
33175	19	5-534	24-552	33247	30	19-526	24-003	33319	14	11-022	25-244				
33176	18	5-738	24-464	33248	13	19-876	24-488	33320	12	11-060	25-983				
33177	21	5-828	24-643	33249	17	20-382	24-476	33321	13	11-174	25-966				
33178	17	5-900	24-206	33250	15	20-878	24-753	33322	24	11-214	25-484				
33179	16	5-915	24-015	33251	19	20-971	24-026	33323	20	11-244	25-364				
33180	15	6-296	24-414	33252	26	21-676	24-034	33324	11	11-286	25-718				
33181	22	6-586	24-082	33253	35	21-848	24-716	33325	34	11-392	25-667				
33182	38	6-741	24-320	33254	14	22-177	24-788	33326	16	11-564	25-694				
33183	21	6-986	24-476	33255	37	22-436	24-132	33327	16	11-656	25-772				
33184	39	7-085	24-128	33256	42	22-680	24-140	33328	26	11-868	25-634				
33185	25	7-145	24-708	33257	26	22-709	24-673	33329	17	11-904	25-439				

R.A. 7<sup>h</sup> 48<sup>m</sup>

Plate 1515, 1920 Jun. 2.

Provisional Constants.

A B C  
-01718 -00254 -0665

D E F  
-00282 -01772 -3780

Mag. = 17.0 - 1.05√d

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33401	13	1-350	0-410
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33403	22	3-956	0-040
33404	25	4-572	0-421
33405*	98	5-396	0-050
33406	21	8-965	0-626
33407	24	9-274	0-244
33408	43	9-326	0-374
33409	12	9-708	0-378
33410	25	10-319	0-723
33411	18	10-550	0-157
33412	30	11-888	0-959
33413	15	12-342	0-012
33414	13	12-836	0-978
33415	12	13-003	0-250
33416	13	13-918	0-323
33417	20	14-124	0-910
33418	31	15-408	0-600
33419	39	16-420	0-800
33420	36	18-277	0-572
33421	13	19-710	0-627
33422	17	20-550	0-642
33423	11	21-856	0-690
33424	13	21-929	0-800
33425	16	22-516	0-616
33426	14	22-880	0-580
33427	22	23-100	0-800
33428*	61	23-650	0-926
33429	26	0-188	1-788
33430	28	0-714	1-348
33431	23	2-900	1-582
33432	10	3-226	1-914
33433	13	3-960	1-314
33434	11	3-970	1-932
33435	11	5-410	1-000
33436	27	6-447	1-620
33437	37	6-484	1-960
33438	17	6-770	1-344
33439	18	8-090	1-666
33440	10	9-080	1-887
33441	10	9-700	1-896
33442	11	9-938	1-729
33443	11	10-326	1-258
33444	20	10-344	1-200
33445	15	10-750	1-815
33446	28	10-816	1-044
33447	22	10-984	1-400
33448	24	11-324	1-955
33449	27	11-639	1-576
33450	12	12-738	1-997
33451	26	13-446	1-296
33452	21	13-575	1-631
33453	32	14-200	1-212
33454	13	14-350	1-244
33455	14	14-726	1-443
33456	10	14-882	1-757



33457	10	15.589	1.666	33529	23	11.546	3.986	33601	18	20.849	4.834	33673	21	12.202	6.130	33745	12	20.067	7.306
33458	43	15.676	1.432	33530	21	11.797	3.264	33602	21	21.160	4.210	33674	31	12.662	6.494	33746	21	20.482	7.798
33459	25	16.900	1.736	33531	28	12.490	3.128	33603	28	21.256	4.018	33675	15	12.689	6.470	33747	13	20.992	7.524
33460	36	17.882	1.274	33532	46	12.544	3.083	33604	26	21.950	4.162	33676	45	12.937	6.864	33748	11	21.361	7.478
33461	37	18.004	1.472	33533	11	12.576	3.182	33605	16	21.954	4.422	33677	38	13.408	6.502	33749	13	22.763	7.884
33462	20	18.150	1.248	33534	14	12.694	3.039	33606	44	22.023	4.999	33678	13	13.488	6.914	33750	10	22.806	7.585
33463	10	18.460	1.614	33535	17	13.332	3.058	33607	20	22.140	4.756	33679	34	13.713	6.894	33751	32	23.300	7.470
33464	25	18.694	1.295	33536	30	14.489	3.450	33608	10	24.334	4.423	33680	13	16.328	6.335	33752	18	23.486	7.967
33465	29	18.700	1.762	33537	51	14.570	3.898	33609	11	0.242	5.414	33681	30	16.430	6.580	33753	12	23.504	7.153
33466	13	20.077	1.154	33538	22	17.804	3.313	33610	31	1.074	5.338	33682	15	16.668	6.743	33754	12	23.873	7.978
33467	10	20.463	1.146	33539	21	18.341	3.484	33611	19	1.196	5.590	33683	26	16.669	6.801	33755	16	24.022	7.740
33468	12	21.071	1.482	33540	34	18.540	3.802	33612	52	1.396	5.089	33684	24	17.014	6.521	33756	46	24.122	7.542
33469	56	21.910	1.736	33541	23	18.682	3.040	33613	27	1.806	5.980	33685	21	17.180	6.764	33757	30	25.255	7.688
33470	29	23.446	1.990	33542	55	18.840	3.370	33614	11	2.534	5.742	33686	18	17.224	6.094	33758	20	25.493	7.314
33471	24	24.855	1.620	33543	51	19.822	3.406	33615	17	2.706	5.510	33687	17	17.604	6.338	33759	15	25.975	7.166
33472	10	2.964	2.218	33544	12	20.795	3.308	33616	37	3.144	5.648	33688	32	17.605	6.877	33760	18	0.423	8.353
33473	14	4.390	2.816	33545	13	21.575	3.496	33617	22	4.024	5.784	33689	10	17.614	6.224	33761	10	1.966	8.362
33474	41	4.994	2.194	33546	11	22.170	3.284	33618	32	4.400	5.450	33690	28	18.323	6.356	33762	37	1.990	8.720
33475	18	5.170	2.030	33547	27	23.034	3.258	33619	26	4.466	5.142	33691	13	19.015	6.432	33763	14	2.265	8.364
33476	20	6.284	2.702	33548	28	24.696	3.044	33620	15	5.297	5.600	33692	53	19.036	6.348	33764	28	3.644	8.246
33477	16	7.894	2.700	33549	26	25.692	3.670	33621	14	6.470	5.772	33693	10	19.880	6.957	33765	29	4.202	8.380
33478	29	8.056	2.774	33550	24	0.193	4.514	33622	18	8.068	5.984	33694	52	22.204	6.502	33766	43	4.398	8.174
33479	34	8.417	2.891	33551	24	1.486	4.898	33623	43	8.446	5.650	33695	14	22.473	6.214	33767	24	5.020	8.506
33480	22	8.622	2.762	33552	12	1.867	4.682	33624	33	8.462	5.548	33696	29	22.560	6.490	33768	19	5.279	8.624
33481	28	9.050	2.508	33553	28	2.960	4.054	33625	10	8.576	5.878	33697	20	23.180	6.654	33769	18	5.504	8.988
33482	26	9.146	2.440	33554	24	3.073	4.156	33626	12	8.890	5.317	33698	32	24.070	6.665	33770	17	6.065	8.882
33483	25	9.608	2.096	33555	16	3.162	4.981	33627	30	9.042	5.307	33699	18	24.994	6.214	33771	15	7.170	8.298
33484	12	9.780	2.182	33556	18	3.250	4.786	33628	42	9.131	5.420	33700	28	25.019	6.866	33772	31	7.291	8.798
33485	14	9.934	2.218	33557	36	4.044	4.547	33629	11	9.350	5.806	33701	38	0.186	7.982	33773	12	7.577	8.780
33486	17	11.982	2.576	33558	47	4.162	4.368	33630	25	10.092	5.988	33702	14	1.455	7.057	33774	10	8.782	8.622
33487	12	12.662	2.265	33559	18	4.317	4.830	33631	27	10.945	5.948	33703	14	1.492	7.958	33775	12	8.986	8.546
33488	12	12.959	2.620	33560	16	4.350	4.555	33632	15	11.120	5.680	33704	13	1.992	7.812	33776	19	9.338	8.874
33489	47	13.356	2.814	33561	18	4.776	4.695	33633	14	11.471	5.081	33705	19	2.193	7.914	33777	11	9.426	8.961
33490	32	14.208	2.788	33562	16	4.794	4.473	33634	32	11.510	5.974	33706	24	2.334	7.070	33778	27	9.546	8.871
33491	15	15.384	2.886	33563	13	5.114	4.148	33635	41	12.270	5.492	33707	29	3.193	7.654	33779	11	9.576	8.872
33492	28	16.163	2.146	33564	31	5.477	4.280	33636	10	14.886	5.044	33708	14	4.428	7.916	33780	43	9.870	8.580
33493	16	16.204	2.110	33565	40	5.590	4.075	33637	13	15.004	5.310	33709	23	5.184	7.499	33781	13	9.951	8.340
33494	27	16.213	2.095	33566	15	5.810	4.578	33638	17	15.120	5.438	33710	16	6.454	7.668	33782	13	10.078	8.800
33495	25	16.362	2.940	33567	10	5.920	4.116	33639	28	15.126	5.243	33711	54	6.575	7.590	33783	26	10.155	8.170
33496	35	16.426	2.564	33568	34	5.995	4.365	33640	23	15.196	5.884	33712	15	6.986	7.240	33784	13	10.240	8.292
33497	24	16.778	2.906	33569	10	6.480	4.140	33641	19	16.040	5.806	33713	14	7.750	7.364	33785	14	10.598	8.759
33498	14	17.266	2.312	33570	26	6.504	4.412	33642	12	16.240	5.492	33714	32	7.872	7.456	33786	25	10.990	8.934
33499	30	19.124	2.136	33571	14	6.786	4.086	33643	19	18.127	5.924	33715	12	8.399	7.082	33787	12	11.330	8.322
33500	47	19.712	2.904	33572	33	6.847	4.504	33644	29	18.486	5.634	33716	29	8.727	7.879	33788	10	11.530	8.436
33501	42	20.062	2.270	33573	28	6.959	4.676	33645	14	18.526	5.188	33717	30	8.760	7.280	33789	13	11.666	8.762
33502	27	20.506	2.038	33574	19	7.820	4.216	33646	10	19.200	5.974	33718	30	9.408	7.615	33790	14	12.033	8.452
33503	14	22.112	2.851	33575	28	8.024	4.343	33647	10	19.776	5.419	33719	14	9.663	7.268	33791	11	12.939	8.862
33504	14	22.903	2.927	33576	19	8.250	4.285	33648	14	19.784	5.538	33720	12	11.639	7.696	33792	14	13.054	8.956
33505	95	23.698	2.898	33577	13	8.800	4.407	33649	25	19.919	5.545	33721	11	12.136	7.280	33793	13	13.730	8.266
33506	11	23.760	2.547	33578	25	9.786	4.044	33650	35	20.390	5.834	33722	29	12.175	7.962	33794	17	14.106	8.557
33507	16	24.340	2.177	33579	10	10.590	4.414	33651	22	22.060	5.090	33723	26	12.634	7.544	33795	11	14.150	8.337
33508	28	24.840	2.532	33580	21	11.660	4.944	33652	23	22.180	5.400	33724	25	12.863	7.602	33796	10	15.984	8.654
33509	10	25.072	2.348	33581	20	11.890	4.542	33653	11	22.835	5.180	33725	41	12.873	7.554	33797	38	16.012	8.786
33510	10	25.369	2.232	33582	14	12.135	4.515	33654	32	22.990	5.474	33726	31	12.964	7.360	33798	44	16.153	8.394
33511	13	25.479	2.324	33583	51	12.423	4.062	33655	37	25.964	5.930	33727	27	12.984	7.968	33799	16	16.194	8.198
33512	26	25.664	2.717	33584	15	12.734	4.619	33656	14	0.360	6.184	33728	16	13.116	7.919	33800	12	16.309	8.376
33513	11	25.774	2.452	33585	40	12.820	4.769	33657	20	2.820	6.357	33729	18	13.434	7.037	33801	10	16.940	8.132
33514	22	0.837	3.112	33586	44	12.883	4.456	33658	12	2.910	6.682	33730	13	13.802	7.697	33802	18	17.200	8.456
33515	19	3.069	3.740	33587	26	13.350	4.856	33659	14	4.634	6.312	33731	22	14.279	7.717	33803	18	17.874	8.334
33516	20	3.356	3.160	33588	42	13.940	4.578	33660	33	4.676	6.329	33732	23	14.990	7.792	33804	24	18.269	8.397
33517	20	3.478	3.564	33589	13	14.509	4.578	33661	10	4.750	6.217	33733	23	16.647	7.516	33805	14	18.447	8.438
33518	10	4.652	3.950	33590	28	15.176	4.334	33662	22	5.493	6.145	33734	12	16.726	7.408	33806	10	18.448	8.393
33519	14	4.951	3.077	33591	15	15.235	4.486	33663	11	5.516	6.822	33735	13	16.914	7.303	33807	35	18.808	8.062
33520	28	5.174	3.009	33592	38	15.572													



33817	29	24.412	8.996	33889	30	6.402	10.123	33961	36	4.520	11.145	34733	44	5.714	12.447	34155	10	6.345	13.255
33818	14	24.838	8.835	33890	15	6.438	10.910	33962	12	4.624	11.552	34734	15	6.242	12.535	34156	31	6.594	13.805
33819	43	25.910	8.070	33891	34	6.440	10.111	33963	16	5.072	11.513	34735	15	6.373	12.876	34157	75	6.612	13.355
33820	11	1.004	9.684	33892	17	6.887	10.425	33964	16	5.250	11.400	34736	29	7.371	12.342	34158	15	6.907	13.657
33821	33	1.376	9.640	33893	14	7.232	10.851	33965	29	5.305	11.584	34737	13	7.660	12.622	34159	12	7.323	13.905
33822	20	1.554	9.516	33894	14	7.311	10.205	33966	27	5.482	11.204	34738	18	8.406	12.966	34160	12	7.438	13.865
33823	31	1.700	9.168	33895	13	7.826	10.386	33967	26	5.868	11.324	34739	27	8.434	12.460	34161	10	7.573	13.225
33824	35	1.774	9.265	33896	16	8.274	10.656	33968	26	5.890	11.340	34740	27	8.500	12.430	34162	16	7.607	13.741
33825	48	2.110	9.486	33897	18	8.949	10.774	33969	26	6.868	11.792	34741	30	8.638	12.572	34163	14	7.754	13.737
33826	36	2.490	9.162	33898	14	9.085	10.010	33970	16	7.330	11.877	34742	22	9.045	12.603	34164	17	8.998	13.093
33827	29	2.590	9.456	33899	34	9.093	10.406	33971	26	7.441	11.902	34743	10	9.202	12.828	34165	15	9.241	13.286
33828	29	3.275	9.674	33900	12	9.483	10.945	33972	12	7.530	11.944	34744	10	9.278	12.795	34166	31	9.323	13.356
33829	14	3.406	9.300	33901	17	9.930	10.140	33973	16	7.630	11.814	34745	14	10.143	12.716	34167	29	9.405	13.744
33830	29	4.194	9.342	33902	14	10.107	10.675	33974	15	8.126	11.900	34746	11	10.230	12.992	34168	39	9.581	13.375
33831	14	4.350	9.700	33903	44	10.146	10.783	33975	16	8.570	11.872	34747	35	10.480	12.972	34169	26	9.586	13.257
33832	27	4.360	9.520	33904	29	10.294	10.108	33976	40	9.555	11.962	34748	16	11.108	12.034	34170	17	9.958	13.974
33833	24	4.466	9.446	33905	14	10.637	10.716	33977	22	9.610	11.116	34749	27	11.306	12.146	34171	41	10.506	13.420
33834	13	5.154	9.824	33906	29	10.728	10.822	33978	27	9.748	11.144	34750	46	11.520	12.740	34172	30	10.758	13.375
33835	18	6.026	9.174	33907	14	10.740	10.860	33979	30	10.785	11.905	34751	40	11.848	12.361	34173	10	11.235	13.171
33836	21	6.943	9.014	33908	16	10.753	10.584	33980	31	10.911	11.024	34752	40	11.961	12.534	34174	26	11.374	13.964
33837	24	7.206	9.512	33909	20	11.032	10.918	33981	38	10.958	11.945	34753	14	12.272	12.927	34175	13	11.386	13.810
33838	26	7.331	9.736	33910	27	11.695	10.915	33982	93	10.980	11.408	34754	29	12.660	12.010	34176	13	11.544	13.085
33839	14	7.486	9.480	33911	11	11.927	10.653	33983	26	11.607	11.542	34755	14	12.701	12.331	34177	35	11.849	13.257
33840	15	7.722	9.330	33912	18	12.088	10.364	33984	21	12.186	11.217	34756	13	12.940	12.026	34178	14	11.910	13.488
33841	13	7.937	9.892	33913	26	12.511	10.673	33985	11	12.434	11.352	34757	46	13.010	12.244	34179	24	12.088	13.884
33842	13	8.034	9.369	33914	26	13.188	10.233	33986	14	12.564	11.206	34758	18	13.520	12.959	34180	10	12.340	13.040
33843	25	8.401	9.846	33915	13	13.736	10.186	33987	29	13.599	11.857	34759	17	13.573	12.794	34181	11	12.575	13.992
33844	27	8.560	9.571	33916	15	14.333	10.612	33988	19	13.634	11.444	34760	26	14.302	12.560	34182	10	12.976	13.027
33845	20	9.582	9.334	33917	48	14.548	10.005	33989	18	13.714	11.926	34761	15	15.502	12.746	34183	15	13.034	13.096
33846	24	9.814	9.684	33918	11	15.174	10.390	33990	14	14.130	11.303	34762	21	16.180	12.726	34184	32	14.044	13.086
33847	29	9.927	9.116	33919	22	15.886	10.850	33991	20	14.528	11.537	34763	14	16.388	12.814	34185	34	14.245	13.766
33848	10	10.930	9.769	33920	10	16.376	10.280	33992	14	14.758	11.361	34764	13	16.586	12.386	34186	10	14.297	13.577
33849	32	11.409	9.307	33921	16	16.619	10.834	33993	31	15.310	11.709	34765	13	17.113	12.443	34187	18	14.409	13.860
33850	14	11.682	9.451	33922	14	16.814	10.803	33994	23	15.458	11.785	34766	12	17.162	12.790	34188	14	14.782	13.972
33851	20	11.904	9.228	33923	19	17.040	10.058	33995	26	15.564	11.530	34767	14	18.290	12.123	34189	40	14.714	13.548
33852	22	14.215	9.680	33924	18	17.176	10.374	33996	25	15.807	11.773	34768	31	18.733	12.894	34190	24	14.770	13.980
33853	55	14.247	9.331	33925	28	17.712	10.708	33997	30	16.064	11.986	34769	14	18.953	12.507	34191	15	14.850	13.621
33854	35	14.354	9.700	33926	18	18.010	10.806	33998	11	16.078	11.777	34770	16	19.446	12.775	34192	13	15.717	13.676
33855	27	14.502	9.426	33927	16	18.374	10.454	33999	12	16.194	11.126	34771	33	19.676	12.680	34193	10	16.545	13.024
33856	30	14.803	9.384	33928	23	18.544	10.456	34000	23	16.206	11.164	34772	22	20.126	12.934	34194	23	16.576	13.740
33857	14	15.857	9.526	33929	22	19.165	10.286	34001	18	18.028	11.902	34773	19	20.292	12.022	34195	33	17.355	13.410
33858	52	17.124	9.666	33930	28	19.392	10.612	34002	16	18.400	11.508	34774	29	20.745	12.664	34196	17	17.760	13.920
33859	31	18.013	9.899	33931	17	19.927	10.787	34003	25	19.590	11.825	34775	33	21.138	12.866	34197	13	17.938	13.270
33860	14	18.044	9.739	33932	20	20.086	10.349	34004	20	19.681	11.412	34776	23	22.640	12.313	34198	30	19.300	13.196
33861	11	19.364	9.867	33933	20	20.201	10.004	34005	18	19.949	11.924	34777	25	22.776	12.200	34199	10	19.455	13.148
33862	18	20.588	9.134	33934	18	20.489	10.438	34006	19	20.516	11.214	34778	22	22.906	12.538	34200	22	20.112	13.404
33863	10	21.411	9.242	33935	18	21.174	10.014	34007	48	21.034	11.806	34779	10	23.444	12.090	34201	14	20.130	13.320
33864	11	21.685	9.900	33936	25	21.279	10.636	34008	11	21.082	11.056	34780	17	23.820	12.384	34202	29	20.266	13.772
33865	17	21.912	9.461	33937	17	21.541	10.904	34009	24	21.628	11.240	34781	13	24.875	12.994	34203	27	20.268	13.683
33866	17	22.728	9.295	33938	17	21.720	10.748	34010	51	22.225	11.647	34782	28	25.712	12.164	34204	16	20.524	13.184
33867	36	22.922	9.460	33939	11	21.816	10.980	34011	29	23.553	11.397	34783	16	0.456	13.472	34205	20	20.924	13.937
33868	40	23.248	9.246	33940	28	21.968	10.885	34012	14	23.862	11.330	34784	20	0.570	13.572	34206	34	20.932	13.270
33869	23	23.278	9.220	33941	31	22.320	10.209	34013	11	24.524	11.968	34785	36	0.703	13.760	34207	14	23.216	13.792
33870	30	23.329	9.990	33942	17	22.392	10.208	34014	15	24.804	11.056	34786	10	0.710	13.154	34208	27	23.794	13.386
33871	43	24.026	9.006	33943	29	23.106	10.354	34015	35	25.338	11.116	34787	34	0.776	13.559	34209	17	24.020	13.210
33872	14	24.552	9.783	33944	16	23.672	10.108	34016	32	0.910	12.718	34788	27	1.276	13.721	34210	43	24.093	13.840
33873	11	24.724	9.633	33945	34	23.732	10.139	34017	16	0.939	12.986	34789	10	1.352	13.826	34211	10	24.366	13.356
33874	17	24.986	9.300	33946	18	24.110	10.658	34018	23	0.986	12.222	34790	23	1.596	13.437	34212	25	24.662	13.025
33875	21	25.290	9.793	33947	56	24.398	10.035	34019	29	1.253	12.885	34791	25	1.616	13.520	34213	10	24.672	13.484
33876	13	0.950	10.130	33948	31	1.010	11.150	34020	10	3.029	12.518	34792	22	1.918	13.746	34214	15	24.830	13.958
33877	27	1.147	10.750	33949	19	1.492	11.585	34021	11	3.290	12.850	34793	15	2.096	13.354	34215	15	25.290	13.436
33878	29	1.566	10.786	33950	14	2.036	11.924	34022	11	3.297	12.583	34794	11	2.276	13.220	34216	45	25.523	13.825



34177	15	2.414	14.372	34249	31	4.880	15.212	34321	27	7.058	16.401	34393	11	6.540	17.206	34465	18	11.530	18.776
34178	14	3.065	14.156	34250	10	4.932	15.134	34322	15	7.436	16.408	34394	25	6.550	17.394	34466	17	11.704	18.418
34179	17	3.390	14.135	34251	31	5.356	15.286	34323	13	8.658	16.175	34395	13	6.607	17.534	34467	31	11.938	18.892
34180	20	3.542	14.246	34252	17	5.642	15.616	34324	14	8.961	16.634	34396	28	6.725	17.560	34468	29	12.004	18.126
34181	15	4.084	14.037	34253	13	5.660	15.377	34325	18	8.980	16.584	34397	13	7.221	17.071	34469	31	12.142	18.584
34182	25	4.164	14.602	34254	18	5.840	15.222	34326	13	9.114	16.125	34398	41	7.234	17.208	34470	51	12.434	18.956
34183	12	4.874	14.928	34255	30	5.895	15.501	34327	14	9.160	16.110	34399	15	7.742	17.230	34471	41	13.066	18.856
34184	32	5.097	14.118	34256	11	5.944	15.284	34328	14	9.494	16.297	34400	13	7.887	17.435	34472	10	13.682	18.562
34185	15	5.648	14.448	34257	27	6.392	15.570	34329	29	9.846	16.696	34401	14	8.527	17.500	34473	14	14.201	18.780
34186	32	5.785	14.448	34258	16	6.874	15.684	34330	20	10.126	16.096	34402	24	8.804	17.813	34474	22	14.447	18.650
34187	10	5.983	14.762	34259	32	7.120	15.170	34331	17	10.325	16.220	34403	14	8.808	17.726	34475	16	14.591	18.776
34188	33	6.352	14.310	34260	15	7.230	15.784	34332	24	10.396	16.586	34404	31	9.136	17.063	34476	26	14.878	18.220
34189	30	6.682	14.200	34261	14	7.336	15.900	34333	20	10.636	16.608	34405	26	9.366	17.926	34477	33	15.112	18.878
34190	26	6.814	14.865	34262	12	7.450	15.667	34334	21	10.784	16.729	34406	28	9.432	17.918	34478	14	15.672	18.468
34191	26	7.080	14.875	34263	12	7.745	15.467	34335	30	11.270	16.382	34407	30	9.963	17.750	34479	14	16.666	18.528
34192	23	7.254	14.556	34264	12	7.872	15.834	34336	39	11.307	16.716	34408	17	10.422	17.015	34480	10	16.910	18.898
34193	10	7.300	14.568	34265	14	7.948	15.950	34337	31	11.540	16.592	34409	10	10.544	17.712	34481	39	17.472	18.555
34194	12	7.628	14.404	34266	16	8.130	15.758	34338	16	11.822	16.856	34410	26	10.570	17.700	34482	18	17.860	18.230
34195*	36	7.638	14.519	34267	24	8.264	15.496	34339	33	12.664	16.134	34411	26	10.765	17.426	34483	39	17.918	18.274
34196	11	7.742	14.633	34268	10	8.698	15.046	34340	21	13.180	16.214	34412	28	11.106	17.386	34484	23	18.909	18.836
34197	11	8.070	14.158	34269	26	9.548	15.700	34341	13	13.246	16.700	34413	23	11.428	17.188	34485	17	19.020	18.024
34198	30	8.158	14.842	34270	14	9.556	15.438	34342	16	13.562	16.320	34414	34	11.493	17.842	34486	10	19.686	18.160
34199	14	8.316	14.479	34271*	43	9.994	15.474	34343	14	14.121	16.940	34415	50	11.600	17.760	34487	16	20.640	18.418
34200	17	8.833	14.155	34272	23	10.240	15.774	34344	31	14.430	16.380	34416	13	11.794	17.330	34488	39	21.000	18.822
34201	28	9.104	14.912	34273	11	10.532	15.333	34345	21	14.575	16.494	34417	45	11.873	17.710	34489	31	21.416	18.100
34202	19	9.190	14.430	34274	14	10.680	15.020	34346	11	14.624	16.522	34418	13	11.991	17.736	34490	10	21.426	18.450
34203	13	9.647	14.049	34275	19	11.083	15.370	34347	13	15.283	16.920	34419	22	12.268	17.836	34491	18	21.525	18.204
34204	24	10.160	14.847	34276	10	11.923	15.293	34348	22	15.338	16.834	34420	20	12.492	17.732	34492	10	22.050	18.458
34205	12	10.530	14.340	34277	29	12.734	15.500	34349	26	15.440	16.590	34421	15	13.679	17.512	34493	32	22.142	18.913
34206	12	11.136	14.347	34278	25	12.813	15.380	34350	17	15.990	16.478	34422	15	14.306	17.894	34494	34	22.754	18.360
34207	10	11.655	14.814	34279	28	13.524	15.316	34351	33	16.007	16.400	34423	13	14.402	17.492	34495	28	22.922	18.010
34208	28	12.303	14.414	34280	21	14.248	15.103	34352	15	17.410	16.850	34424	10	14.418	17.166	34496	46	23.560	18.130
34209	14	12.934	14.146	34281	15	14.366	15.289	34353	15	17.610	16.992	34425	10	15.108	17.781	34497	32	23.992	18.114
34210	29	13.205	14.926	34282	20	14.915	15.720	34354	13	17.811	16.097	34426	16	15.304	17.556	34498	14	24.465	18.337
34211*	50	13.557	14.070	34283	33	16.226	15.864	34355	15	18.180	16.725	34427	28	16.555	17.922	34499	32	25.246	18.040
34212	14	14.176	14.398	34284	14	16.251	15.454	34356	28	18.594	16.575	34428	14	16.622	17.427	34500	10	0.766	19.520
34213	41	14.266	14.296	34285	14	16.807	15.992	34357	10	19.583	16.848	34429	14	16.826	17.828	34501	24	1.026	19.093
34214	14	14.417	14.584	34286	24	17.044	15.313	34358	21	19.662	16.328	34430	11	16.834	17.380	34502	16	1.196	19.015
34215	13	15.054	14.562	34287	29	17.076	15.926	34359	15	19.691	16.961	34431	12	17.837	17.282	34503	11	1.607	19.695
34216	20	15.164	14.466	34288	25	17.564	15.849	34360	15	20.266	16.235	34432	32	18.298	17.742	34504	29	1.668	19.560
34217	10	15.174	14.224	34289	16	18.088	15.677	34361	26	20.460	16.302	34433	27	18.527	17.035	34505	26	1.888	19.734
34218	11	15.259	14.412	34290	11	18.796	15.806	34362	31	20.790	16.662	34434	24	19.850	17.540	34506	32	2.192	19.610
34219	13	15.586	14.724	34291	16	19.258	15.582	34363	31	20.916	16.150	34435	47	21.780	17.764	34507	10	2.755	19.170
34220	14	15.590	14.274	34292	24	20.320	15.662	34364	12	20.974	16.028	34436	48	22.320	17.956	34508	11	3.490	19.942
34221	10	15.734	14.167	34293	14	20.557	15.950	34365	20	21.324	16.748	34437	18	23.372	17.898	34509	40	3.918	19.502
34222	27	16.406	14.266	34294	29	21.256	15.792	34366	14	21.350	16.838	34438	15	24.710	17.966	34510	17	3.920	19.428
34223	11	16.797	14.181	34295	28	21.373	15.500	34367	29	21.399	16.980	34439	30	25.102	17.424	34511	18	4.349	19.072
34224	10	17.072	14.310	34296	11	22.081	15.290	34368	12	21.501	16.048	34440	27	25.370	17.437	34512	31	4.792	19.348
34225	19	17.642	14.316	34297	36	23.100	15.110	34369	14	21.624	16.695	34441	11	0.062	18.294	34513	29	7.236	19.976
34226	19	18.509	14.850	34298	10	23.293	15.306	34370	16	22.170	16.150	34442	11	0.132	18.976	34514	43	9.671	19.922
34227	16	19.103	14.903	34299	29	23.360	15.712	34371	19	22.447	16.428	34443	19	0.426	18.144	34515	14	10.056	19.919
34228	28	19.190	14.178	34300	43	24.240	15.907	34372	16	22.652	16.430	34444	19	0.948	18.461	34516	28	10.125	19.722
34229	29	19.206	14.410	34301	17	24.434	15.148	34373	22	23.044	16.252	34445	48	1.444	18.584	34517	20	10.173	19.940
34230	14	19.625	14.558	34302	20	24.543	15.184	34374	31	23.188	16.510	34446	10	2.046	18.494	34518	10	10.357	19.732
34231	29	20.029	14.198	34303	11	24.571	15.040	34375	40	23.362	16.337	34447	14	2.226	18.520	34519	27	10.482	19.256
34232	14	20.822	14.726	34304	16	24.714	15.930	34376	16	23.644	16.262	34448	12	4.466	18.745	34520	10	11.212	19.763
34233	28	21.741	14.890	34305	18	25.068	15.124	34377	10	23.655	16.364	34449	10	4.678	18.269	34521	39	11.701	19.886
34234	30	22.539	14.710	34306	40	25.126	15.846	34378	30	24.266	16.844	34450	10	4.716	18.335	34522	26	11.858	19.913
34235	39	22.584	14.032	34307	26	25.567	15.840	34379	23	24.457	16.540	34451	10	5.055	18.664	34523	16	12.203	19.059
34236	28	22.714	14.450	34308	12	0.831	16.080	34380	27	0.258	17.750	34452	19	5.665	18.090	34524	28	12.808	19.690
34237	10	24.272	14.141	34309	26	0.958	16.442	34381	42	0.536	17.776	34453	49	5.938	18.900	34525	28	13.170	19.706
34238	10	24.944	14.862	34310	28	1.126	16.961	34382	12	1.100	17.924	34454	28	5.					



34537	29	20.579	19.373	34609	30	24.877	20.215	34681	18	16.630	22.050	34753	45	7.200	24.524
34538	39	20.819	19.933	34610	21	25.510	20.892	34682	17	16.944	22.503	34754	13	9.715	24.056
34539	10	21.088	19.558	34611	28	0.471	21.334	34683	14	17.424	22.030	34755	29	9.826	24.902
34540	14	21.862	19.289	34612	10	1.201	21.937	34684	24	17.936	22.506	34756	14	10.330	24.630
34541	13	22.972	19.488	34613	22	1.296	21.676	34685	27	18.140	22.757	34757	28	11.052	24.202
34542	18	23.050	19.078	34614	27	2.293	21.212	34686	16	18.346	22.460	34758	23	11.180	24.952
34543	35	24.475	19.876	34615	72	2.552	21.388	34687	10	18.471	22.386	34759	31	11.606	24.884
34544	33	25.016	19.485	34616	19	5.954	21.304	34688	19	21.768	22.920	34760	12	11.900	24.662
34545	28	0.036	20.484	34617	20	6.130	21.914	34689	13	21.946	22.300	34761	15	12.067	24.707
34546	19	0.144	20.300	34618	13	6.425	21.086	34690	44	21.988	22.581	34762	17	12.394	24.110
34547	18	0.158	20.010	34619	18	6.480	21.122	34691	24	22.863	22.952	34763	33	12.722	24.610
34548	15	1.459	20.408	34620	19	6.496	21.777	34692	28	23.567	22.883	34764	16	12.820	24.470
34549	13	1.600	20.122	34621	26	6.577	21.140	34693	10	24.596	22.537	34765	40	13.256	24.164
34550	26	3.846	20.682	34622	34	6.983	21.254	34694	12	25.949	22.670	34766	12	13.356	24.754
34551	16	3.870	20.184	34623	13	7.244	21.794	34695	19	1.366	23.715	34767	25	13.617	24.332
34552	16	3.944	20.852	34624	12	7.522	21.080	34696	48	3.534	23.650	34768	20	14.098	24.634
34553	33	4.408	20.848	34625	14	7.526	21.398	34697	22	3.616	23.940	34769	10	14.232	24.760
34554	26	5.767	20.230	34626	30	7.548	21.166	34698	11	4.060	23.874	34770	10	14.500	24.748
34555	40	5.888	20.586	34627*	62	8.410	21.836	34699	10	4.272	23.338	34771	28	14.894	24.050
34556	13	5.965	20.857	34628	21	8.528	21.403	34700	11	5.126	23.972	34772	12	15.482	24.636
34557	41	6.106	20.474	34629	10	8.954	21.804	34701	23	6.286	23.934	34773	41	10.010	24.686
34558	29	6.436	20.134	34630	48	9.098	21.714	34702	29	7.317	23.367	34774	19	16.341	24.502
34559	13	6.928	20.760	34631	20	9.335	21.430	34703	16	7.614	23.478	34775	41	16.425	24.558
34560	26	7.056	20.590	34632	10	10.413	21.850	34704	10	8.326	23.708	34776	11	16.448	24.856
34561	19	7.710	20.326	34633	10	10.643	21.355	34705	14	8.729	23.114	34777	10	16.666	24.490
34562	10	7.824	20.501	34634	29	10.757	21.432	34706	33	9.370	23.674	34778	21	17.528	24.616
34563	41	8.120	20.416	34635	23	12.562	21.842	34707	14	9.445	23.520	34779	54	18.374	24.923
34564	32	8.876	20.060	34636*	59	13.236	21.116	34708	10	10.685	23.252	34780	24	19.060	24.712
34565	20	9.530	20.138	34637	16	13.986	21.468	34709	23	11.410	23.559	34781	13	19.280	24.885
34566	24	9.730	20.624	34638	20	14.488	21.632	34710	13	11.970	23.726	34782	24	20.464	24.732
34567	17	9.938	20.670	34639	40	15.104	21.612	34711	43	12.850	23.410	34783	26	20.774	24.485
34568	10	10.050	20.954	34640	16	15.466	21.424	34712	25	13.038	23.500	34784	51	21.104	24.948
34569	14	10.124	20.727	34641	13	16.700	21.396	34713	11	13.070	23.144	34785	13	21.280	24.178
34570	13	10.464	20.329	34642	10	17.285	21.044	34714	16	13.331	23.913	34786	30	22.059	24.427
34571	28	10.598	20.913	34643*	54	17.409	21.412	34715	16	13.550	23.330	34787	27	23.417	24.924
34572	14	10.680	20.970	34644	21	17.578	21.345	34716	23	13.768	23.063	34788	26	23.550	24.391
34573	10	10.955	20.331	34645*	50	18.440	21.134	34717	31	13.847	23.491	34789	10	24.505	24.770
34574	21	11.083	20.481	34646	23	18.836	21.350	34718	41	13.857	23.254	34790	10	25.066	24.434
34575	14	11.912	20.050	34647	16	20.425	21.242	34719*	63	13.946	23.754	34791	16	25.636	24.286
34576	20	11.962	20.054	34648	53	20.866	21.850	34720	30	14.364	23.306	34792	81	1.224	25.413
34577	30	12.175	20.534	34649*	55	21.132	21.310	34721	12	14.689	23.340	34793	13	1.944	25.535
34578	20	12.244	20.017	34650	17	21.370	21.300	34722	18	14.896	23.849	34794	14	2.052	25.743
34579	22	12.292	20.356	34651	27	21.452	21.217	34723*	54	15.380	23.870	34795	20	2.202	25.526
34580	22	12.712	20.069	34652	31	25.835	21.094	34724	26	15.436	23.350	34796	32	2.297	25.592
34581	18	13.065	20.916	34653	23	25.896	21.770	34725	12	15.929	23.822	34797	14	3.453	25.623
34582	11	13.890	20.330	34654	30	3.136	22.480	34726	12	16.023	23.848	34798	14	4.134	25.008
34583	18	14.233	20.726	34655	17	4.038	22.895	34727	14	16.140	23.490	34799	28	4.144	25.752
34584	33	14.272	20.384	34656	14	4.046	22.550	34728	12	16.174	23.176	34800	10	4.546	25.242
34585	14	14.366	20.700	34657	31	4.402	22.838	34729	27	17.855	23.750	34801	19	5.152	25.906
34586	33	16.240	20.058	34658	21	4.892	22.470	34730	29	17.950	23.374	34802	11	5.348	25.400
34587	12	16.478	20.770	34659	37	5.547	22.430	34731	11	18.526	23.718	34803	65	5.765	25.558
34588	26	16.608	20.776	34660	17	5.726	22.597	34732	12	18.691	23.820	34804	15	7.181	25.726
34589	46	16.630	20.178	34661	15	6.584	22.626	34733	13	18.700	23.184	34805	13	8.254	25.429
34590*	60	16.630	20.151	34662	11	6.762	22.868	34734	15	19.702	23.088	34806	20	9.954	25.802
34591	22	16.701	20.256	34663	26	7.542	22.726	34735	41	20.674	23.030	34807	27	11.045	25.820
34592	42	16.988	20.214	34664	15	8.158	22.168	34736	16	22.670	23.674	34808	10	11.586	25.488
34593	10	17.240	20.462	34665	16	8.175	22.690	34737	40	23.640	23.673	34809	13	13.322	25.524
34594	11	17.502	20.710	34666	16	9.217	22.439	34738	28	25.858	23.730	34810	18	13.591	25.072
34595	23	18.224	20.440	34667	13	9.635	22.770	34739	20	0.560	24.362	34811	43	14.284	25.961
34596	36	18.471	20.290	34668	17	10.024	22.274	34740	33	0.799	24.070	34812	34	14.286	25.815
34597	20	19.199	20.614	34669	14	11.160	22.276	34741	10	0.836	24.606	34813	59	14.807	25.408
34598	10	19.410	20.224	34670	16	11.920	22.392	34742	19	1.433	24.419	34814	23	15.687	25.340
34599	26	19.769	20.650	34671	40	12.074	22.784	34743	18	1.486	24.828	34815	13	15.929	25.870
34600	26	19.988	20.300	34672	27	12.127	22.181	34744	18	2.280	24.723	34816	19	16.125	25.408
34601	14	20.274	20.566	34673	13	12.128	22.780	34745	32	3.304	24.722	34817	34	17.746	25.035
34602	35	20.838	20.200	34674	28	12.820	22.696	34746	15	3.518	24.873	34818	13	18.068	25.530
34603	10	21.058	20.654	34675	20	14.155	22.630	34747	57	4.554	24.000	34819	10	18.268	25.179
34604	17	21.465	20.100	34676	11	15.260	22.511	34748	33	4.778	24.724	34820	19	19.280	25.502
34605*	47	21.820	20.392	34677	10	15.788	22.736	34749	14	4.824	24.478	34821	50	22.471	25.231
34606	13	22.066	20.288	34678	32	15.898	22.126	34750	27	5.118	24.932	34822	14	23.261	25.136
34607	25	22.336	20.467	34679	29	16.066	22.602	34751	10	5.819	24.288	34823	11	24.024	25.936
34608	46	22.992	20.540	34680	12	16.496	22.313	34752	26	7.183	24.805	34824	28	24.182	25.888

R.A. 7<sup>h</sup> 56<sup>m</sup>

Plate 1556, 1920 Feb. 12.

Provisional Constants.

A

B

C

—01716

+00916

—0693

D

E

F

—00917

—01749

—2187

Mag.=16.4—1.05√d

No.	d	ρ	η
34851	18	0.364	0.848
34852	15	0.728	0.806
34853	12	1.042	0.168
34854	19	2.788	0.563
34855	24	4.284	0.112
34856	35	4.300	0.889
34857	15	4.490	0.920
34858	17	4.968	0.778
34859	17	5.030	0.290
34860	14	6.034	0.594
34861	22	6.186	0.086
34862	19	6.972	0.290
34863	20	7.471	0.214
34864	13	7.570	0.074
34865	22	8.102	0.782
34866	10	8.238	0.093
34867	13	8.442	0.325
34868	24	8.590	0.878
34869	20		











36346	22	18° 9' 16	22° 7' 5	36418	34	21° 5' 02	23° 7' 75	36490	20	4° 3' 07	25° 0' 58	<div>R.A. 8. 4"</div> <div>Plate 1596 ; 1920 Feb 18.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-01756 +00900 -1640</div> <div>D E F</div> <div>-00900 -01762 +0012</div> <div>Mag = 16.2 - 1.05√d</div>	36500	11	2° 8' 47	1° 8' 14
36347	12	18° 9' 47	22° 11' 12	36419	24	21° 0' 30	23° 8' 92	36491	34	4° 6' 39	25° 2' 76		36507	25	2° 9' 10	1° 8' 68
36348	11	20° 5' 44	22° 8' 15	36420	16	21° 6' 40	23° 1' 08	36492	17	4° 9' 58	25° 3' 44		36508	17	3° 8' 93	1° 2' 46
36349	17	21° 0' 19	22° 1' 06	36421	22	21° 7' 36	23° 3' 56	36493	20	5° 4' 34	25° 2' 42		36509	10	4° 2' 80	1° 1' 40
36350	12	21° 1' 00	22° 1' 24	36422	44	21° 7' 62	23° 3' 46	36494	20	6° 8' 34	25° 3' 00		36510	10	4° 7' 80	1° 0' 33
36351	28	21° 1' 22	22° 1' 06	36423	13	21° 7' 68	23° 0' 88	36495	14	7° 1' 68	25° 3' 02		36511	20	5° 3' 31	1° 6' 42
36352	31	21° 5' 66	22° 4' 59	36424	12	22° 8' 06	23° 1' 60	36496	20	7° 8' 14	25° 9' 44		36512	14	5° 7' 28	1° 7' 29
36353	11	21° 6' 30	22° 5' 24	36425	12	23° 2' 24	23° 5' 16	36497	12	7° 9' 14	25° 6' 74		36513	12	7° 0' 26	1° 2' 90
36354	29	22° 0' 20	22° 1' 75	36426	31	23° 7' 68	23° 5' 02	36498	20	8° 3' 20	25° 6' 00		36514*	53	7° 3' 54	1° 4' 78
36355	16	22° 7' 51	22° 4' 70	36427	13	24° 2' 15	23° 4' 14	36499	14	8° 6' 36	25° 2' 72		36515	10	8° 0' 41	1° 2' 12
36356	11	22° 8' 98	22° 6' 25	36428	29	24° 2' 18	23° 4' 35	36500	14	8° 7' 59	25° 0' 72		36516	31	8° 0' 42	1° 3' 78
36357	24	23° 0' 76	22° 8' 16	36429	22	24° 9' 71	23° 0' 25	36501	36	9° 1' 11	25° 4' 02		36517	12	8° 4' 92	1° 7' 36
36358	27	23° 6' 32	22° 5' 50	36430	18	25° 0' 93	23° 6' 70	36502	23	9° 6' 80	25° 7' 86		36518	12	8° 5' 10	1° 2' 11
36359	21	23° 7' 85	22° 1' 38	36431	12	25° 5' 75	23° 9' 64	36503	10	9° 8' 75	25° 8' 64		36519	30	9° 0' 86	1° 8' 15
36360	19	24° 4' 65	22° 2' 35	36432	24	0° 3' 52	24° 6' 65	36504	14	10° 0' 68	25° 0' 08		36520	15	9° 0' 95	1° 0' 15
36361	11	25° 1' 70	22° 5' 18	36433	24	1° 8' 44	24° 6' 06	36505	16	10° 1' 44	25° 7' 44		36521	10	9° 5' 26	1° 6' 26
36362	21	25° 2' 00	22° 2' 34	36434	14	2° 0' 94	24° 4' 74	36506	20	10° 7' 76	25° 7' 94		36522	15	10° 1' 86	1° 9' 98
36363	14	25° 4' 99	22° 2' 82	36435	14	2° 8' 08	24° 9' 65	36507	13	11° 1' 08	25° 0' 18		36523	12	10° 3' 18	1° 0' 72
36364	16	0° 0' 34	23° 1' 64	36436	17	3° 3' 65	24° 6' 19	36508	18	11° 5' 19	25° 0' 64		36524	11	11° 2' 58	1° 3' 42
36365	17	0° 9' 48	23° 9' 04	36437	24	3° 9' 26	24° 4' 58	36509	22	11° 7' 26	25° 1' 36		36525	12	11° 5' 32	1° 6' 12
36366	23	1° 1' 28	23° 1' 76	36438	16	5° 0' 04	24° 4' 36	36510	24	11° 7' 50	25° 6' 40		36526	14	11° 9' 40	1° 3' 02
36367	11	1° 5' 52	23° 1' 78	36439	17	5° 4' 40	24° 5' 62	36511	20	12° 9' 83	25° 4' 34		36527	19	13° 3' 66	1° 7' 92
36368	23	1° 8' 30	23° 0' 95	36440	15	5° 6' 10	24° 2' 52	36512	42	14° 1' 62	25° 9' 80		36528*	82	13° 4' 71	1° 7' 00
36369	13	1° 8' 95	23° 0' 68	36441	27	5° 8' 18	24° 8' 94	36513	20	14° 2' 22	25° 0' 82		36529	21	14° 5' 23	1° 9' 92
36370	34	1° 9' 15	23° 8' 84	36442	11	5° 8' 79	24° 6' 78	36514	40	14° 7' 00	25° 3' 36		36530	31	14° 6' 49	1° 3' 16
36371	12	2° 2' 92	23° 5' 97	36443	13	6° 4' 38	24° 8' 72	36515	12	14° 9' 12	25° 6' 96		36531	17	14° 7' 67	1° 9' 93
36372	12	4° 0' 25	23° 7' 18	36444	13	6° 7' 67	24° 6' 51	36516	15	15° 1' 95	25° 5' 65		36532	31	14° 7' 68	1° 3' 22
36373	36	4° 1' 37	23° 9' 02	36445	13	7° 4' 15	24° 3' 88	36517	22	15° 6' 15	25° 4' 66		36533	23	14° 8' 68	1° 7' 33
36374	27	5° 6' 13	23° 8' 72	36446	31	7° 7' 52	24° 6' 25	36518	24	16° 5' 08	25° 4' 32		36534	18	15° 0' 58	1° 9' 74
36375	25	5° 6' 84	23° 9' 94	36447	20	8° 6' 00	24° 4' 88	36519	45	17° 6' 44	25° 4' 91		36535	17	15° 5' 46	1° 3' 15
36376	24	5° 6' 84	23° 4' 88	36448	12	8° 7' 64	24° 0' 08	36520	12	18° 4' 65	25° 8' 64		36536	10	16° 0' 72	1° 7' 74
36377	29	5° 8' 19	23° 1' 52	36449	36	9° 1' 50	24° 2' 57	36521	10	18° 8' 02	25° 8' 60		36537	31	16° 2' 34	1° 1' 72
36378	18	6° 3' 50	23° 1' 32	36450	25	9° 8' 25	24° 0' 45	36522	15	18° 8' 85	25° 1' 21		36538	14	17° 1' 92	1° 6' 48
36379	16	6° 5' 50	23° 7' 99	36451	17	9° 9' 94	24° 9' 86	36523	10	19° 8' 62	25° 4' 09		36539	12	17° 6' 42	1° 4' 10
36380	20	6° 5' 60	23° 9' 88	36452	12	10° 1' 98	24° 0' 15	36524	15	19° 9' 50	25° 7' 72		36540	16	18° 1' 63	1° 7' 89
36381	10	6° 8' 11	23° 3' 60	36453	24	10° 8' 92	24° 1' 56	36525	13	20° 0' 96	25° 2' 17		36541	10	18° 5' 68	1° 9' 32
36382	16	7° 1' 88	23° 5' 36	36454	38	10° 9' 06	24° 2' 16	36526	28	20° 2' 40	25° 7' 82		36542	32	19° 7' 06	1° 7' 70
36383	20	7° 1' 96	23° 0' 40	36455	34	11° 4' 72	24° 6' 22	36527	22	20° 5' 16	25° 0' 88		36543	17	19° 8' 96	1° 3' 88
36384	12	7° 3' 40	23° 7' 21	36456	14	11° 7' 81	24° 0' 76	36528	14	20° 9' 16	25° 1' 90		36544	10	21° 5' 21	1° 8' 77
36385	16	7° 5' 66	23° 3' 53	36457*	64	11° 8' 00	24° 3' 86	36529	21	21° 1' 03	25° 2' 20		36545	15	22° 1' 31	1° 6' 22
36386	16	7° 6' 67	23° 9' 84	36458	22	12° 1' 75	24° 4' 90	36530	28	21° 3' 23	25° 7' 78		36546	13	22° 6' 25	1° 9' 62
36387	20	7° 9' 51	23° 7' 86	36459	13	12° 4' 78	24° 8' 62	36531	16	21° 6' 90	25° 5' 20		36547	19	23° 0' 35	1° 6' 40
36388	36	8° 2' 85	23° 7' 65	36460	20	13° 1' 85	24° 1' 48	36532	13	22° 2' 51	25° 9' 76		36548	12	23° 6' 36	1° 8' 32
36389	12	8° 4' 20	23° 9' 14	36461	13	13° 2' 53	24° 0' 20	36533	13	22° 3' 24	25° 3' 36	36549	31	23° 8' 58	1° 9' 20	
36390	25	8° 4' 43	23° 9' 14	36462	20	13° 3' 95	24° 1' 81	36534	33	22° 5' 90	25° 0' 70	36550	32	24° 7' 00	1° 5' 66	
36391	14	8° 5' 34	23° 7' 30	36463	12	13° 4' 34	24° 1' 53	36535	13	23° 0' 98	25° 7' 26	36551	10	25° 2' 69	1° 7' 18	
36392	12	8° 9' 56	23° 2' 35	36464	12	13° 7' 25	24° 1' 98	36536	19	23° 2' 98	25° 4' 35	36552	20	25° 3' 54	1° 8' 52	
36393	26	9° 4' 26	23° 2' 86	36465	24	14° 6' 98	24° 0' 74	36537	14	23° 6' 34	25° 4' 48	36553	11	0° 5' 55	2° 5' 34	
36394	13	10° 6' 65	23° 5' 64	36466	12	15° 4' 53	24° 4' 33	36538	25	24° 2' 14	25° 2' 28	36554	29	0° 6' 36	2° 3' 32	
36395	12	11° 1' 78	23° 7' 12	36467	15	15° 4' 72	24° 4' 51	36539	70	25° 7' 40	25° 9' 46	36555	29	1° 6' 88	2° 1' 05	
36396	21	11° 8' 56	23° 7' 94	36468	30	15° 5' 06	24° 2' 46	36540	33	25° 7' 74	25° 4' 11	36556*	38	1° 7' 80	2° 2' 38	
36397	34	12° 1' 02	23° 4' 98	36469*	78	15° 6' 04	24° 9' 30	36541	15	25° 7' 74	25° 1' 40	36557	22	1° 8' 20	2° 0' 27	



36678	10	17.922	2 380	36750	27	0.951	4.543	36822	2	8.424	5.171	36864	15	12.551	6.368	36906	12	17.546	7.504
36679	41	18.300	2.362	36751	11	1.221	4.047	36823	14	0.757	5.243	36865	10	12.600	6.216	36907	33	17.566	7.144
36680	23	18.816	2.037	36752	21	1.258	4.742	36824	36	10.700	5.517	36866	17	12.754	6.728	36908	30	17.600	7.891
36681	10	21.143	2.349	36753	13	1.757	4.140	36825	21	11.340	5.315	36867	16	12.810	6.118	36909	26	17.600	7.102
36682	11	21.326	2.368	36754	32	1.785	4.050	36826	12	11.368	5.003	36868	22	12.955	6.656	36910	15	17.876	7.077
36683	13	21.973	2.028	36755	27	1.866	4.551	36827	14	11.410	5.520	36869	12	13.573	6.211	36911	18	18.072	7.921
36684	13	0.086	3.658	36756	24	2.385	4.322	36828	11	11.171	5.188	36870	10	14.041	6.062	36912	22	10.322	7.508
36685	11	0.449	3.818	36757	31	2.750	4.538	36829	20	11.528	5.830	36871	20	14.102	6.740	36913	11	19.438	7.183
36686	10	0.878	3.888	36758	21	2.925	4.182	36830	32	11.858	5.913	36872	17	14.186	6.368	36914	10	20.238	7.122
36687	17	1.140	3.881	36759	22	2.981	4.472	36831	10	12.120	5.703	36873	32	14.407	6.956	36915	27	20.431	7.358
36688	11	1.362	3.110	36760	12	4.500	4.954	36832	38	12.375	5.584	36874	11	14.440	6.622	36916	28	20.586	7.885
36689	10	2.036	3.339	36761	10	4.901	4.525	36833	11	12.549	5.300	36875	10	16.615	6.350	36917	19	20.606	7.280
36690	27	2.059	3.020	36762	18	6.350	4.608	36834	12	12.686	5.422	36876	21	16.621	6.540	36918	14	21.838	7.842
36691	13	3.386	3.929	36763	12	6.748	4.757	36835	32	12.847	5.429	36877	39	16.652	6.800	36919	11	22.025	7.888
36692	12	3.636	3.900	36764	35	6.831	4.775	36836	16	13.024	5.150	36878	21	16.788	6.070	36920	10	22.831	7.725
36693	36	3.795	3.858	36765	22	7.259	4.751	36837	41	13.304	5.351	36879	26	16.915	6.710	36921	15	22.841	7.405
36694	17	4.342	3.688	36766	26	7.337	4.304	36838	10	14.240	5.150	36880	12	17.528	6.278	36922	12	23.994	7.234
36695	13	5.340	3.017	36767	12	7.500	4.077	36839	22	14.601	5.914	36881	30	17.964	6.986	36923	18	23.995	7.884
36696	10	6.001	3.505	36768	22	7.791	4.208	36840	25	14.616	5.804	36882	10	18.358	6.630	36924	14	24.124	7.818
36697	37	6.310	3.733	36769	19	8.085	4.512	36841	11	15.020	5.788	36883	18	19.322	6.550	36925	10	0.160	8.284
36698	13	6.641	3.524	36770	25	8.708	4.072	36842	10	15.250	5.386	36884	34	19.634	6.139	36926	10	0.380	8.418
36699	10	7.302	3.110	36771	15	9.096	4.631	36843	11	16.232	5.180	36885	38	19.881	6.290	36927	10	1.189	8.771
36700	19	7.698	3.728	36772	111	9.574	4.025	36844	22	18.004	5.341	36886	30	20.842	6.398	36928	10	1.685	8.321
36701	49	7.848	3.840	36773	12	9.649	4.700	36845	45	19.064	5.086	36887	18	21.040	6.078	36929	10	1.604	8.639
36702	22	7.857	3.192	36774	10	10.620	4.130	36846	10	19.195	5.816	36888	18	21.584	6.920	36930	21	2.460	8.210
36703	13	7.880	3.392	36775	11	11.632	4.301	36847	12	19.255	5.134	36889	11	22.085	6.225	36931	12	2.820	8.074
36704	28	9.200	3.474	36776	20	11.739	4.191	36848	10	19.836	5.820	36890	25	22.274	6.262	36932	12	3.100	8.017
36705	33	9.260	3.960	36777	17	11.958	4.308	36849	10	20.610	5.179	36891	17	22.484	6.148	36933	12	3.266	8.042
36706	17	9.570	3.860	36778	13	12.145	4.301	36850	11	20.688	5.724	36892	31	23.044	6.066	36934	26	3.572	8.228
36707	12	10.190	3.938	36779	36	12.755	4.186	36851	14	20.868	5.011	36893	10	24.050	6.560	36935	37	4.180	8.341
36708	20	10.750	3.592	36780	11	13.474	4.335	36852	12	21.024	5.340	36894	20	24.218	6.442	36936	18	4.418	8.850
36709	15	10.772	3.694	36781	34	13.903	4.542	36853	34	21.066	5.524	36895	18	25.028	6.382	36937	18	4.520	8.816
36710	12	11.332	3.588	36782	12	13.992	4.718	36854	15	21.255	5.921	36896	34	25.776	6.854	36938	14	4.600	8.650
36711	14	11.536	3.380	36783	26	15.572	4.914	36855	13	21.825	5.072	36897	30	0.386	7.829	36939	12	5.272	8.958
36712	12	11.546	3.043	36784	34	16.726	4.774	36856	14	22.222	5.000	36898	35	0.734	7.451	36940	15	5.353	8.710
36713	36	12.335	3.603	36785	11	17.630	4.924	36857	33	22.846	5.714	36899	10	1.084	7.387	36941	21	5.456	8.247
36714	12	12.491	3.990	36786	14	17.729	4.012	36858	40	22.990	5.408	36900	14	2.600	7.091	36942	47	5.870	8.896
36715	41	12.696	3.578	36787	11	18.206	4.268	36859	20	24.396	5.171	36901	11	2.822	7.620	36943	13	6.700	8.076
36716	29	13.442	3.050	36788	12	18.991	4.692	36860	10	24.421	5.528	36902	12	3.238	7.679	36944	13	8.018	8.112
36717	55	14.380	3.270	36789	16	19.620	4.143	36861	35	24.444	5.147	36903	10	3.704	7.246	36945	10	8.580	8.706
36718	16	14.669	3.560	36790	25	19.816	4.862	36862	15	24.626	5.212	36904	18	3.894	7.620	36946	10	10.000	8.820
36719	16	14.734	3.933	36791	12	21.260	4.783	36863	10	24.950	5.229	36905	11	4.029	7.224	36947	14	10.887	8.904
36720	21	14.746	3.085	36792	19	22.068	4.570	36864	28	25.706	5.508	36906	27	4.160	7.280	36948	17	11.000	8.680
36721	11	14.962	3.716	36793	22	22.461	4.768	36865	36	0.849	6.154	36907	26	5.416	7.187	36949	23	11.240	8.460
36722	32	14.986	3.881	36794	41	22.678	4.450	36866	10	0.882	6.868	36908	11	5.963	7.928	36950	32	11.246	8.025
36723	13	15.090	3.198	36795	11	23.300	4.319	36867	15	0.938	6.006	36909	11	6.019	7.315	36951	14	11.361	8.674
36724	14	15.120	3.312	36796	10	23.645	4.630	36868	19	0.944	6.714	36910	29	6.354	7.280	36952	31	11.814	8.220
36725	21	15.419	3.352	36797	22	24.861	4.181	36869	32	0.986	6.220	36911	12	6.430	7.343	36953	12	12.588	8.768
36726	13	15.934	3.525	36798	13	0.343	5.540	36870	31	1.412	6.553	36912	15	6.544	7.748	36954	10	12.802	8.131
36727	28	16.447	3.872	36799	12	0.365	5.792	36871	10	2.999	6.425	36913	33	6.600	7.651	36955	25	15.534	8.520
36728	14	16.482	3.744	36800	12	0.567	5.346	36872	11	3.072	6.882	36914	10	6.764	7.450	36956	10	14.308	8.128
36729	18	16.710	3.608	36801	18	0.595	5.555	36873	17	3.102	6.500	36915	28	6.946	7.810	36957	13	14.316	8.714
36730	23	17.230	3.568	36802	11	1.251	5.350	36874	14	3.423	6.289	36916	21	7.249	7.110	36958	15	14.818	8.972
36731	13	17.328	3.942	36803	17	1.278	5.269	36875	25	3.632	6.786	36917	10	7.307	7.902	36959	10	16.134	8.540
36732	12	18.440	3.788	36804	12	1.321	5.808	36876	29	4.074	6.690	36918	21	7.365	7.103	36960	26	10.260	8.211
36733	10	18.511	3.911	36805	11	1.330	5.584	36877	18	4.774	6.222	36919	14	7.746	7.858	36961	26	16.599	8.354
36734	16	18.664	3.834	36806	10	1.597	5.270	36878	21	4.790	6.220	36920	32	8.518	7.142	36962	20	17.207	8.336
36735	23	19.526	3.242	36807	13	2.303	5.198	36879	12	5.025	6.464	36921	14	8.620	7.976	36963	38	17.710	8.308
36736	34	20.100	3.336	36808	29	3.228	5.350	36880	17	5.665	6.981	36922	15	9.631	7.700	36964	40	17.980	8.062
36737	12	20.346	3.320	36809	21	3.556	5.820	36881	20	5.956	6.896	36923	30	9.843	7.563	36965	10	18.938	8.074
36738	11	20.570	3.439	36810	22	4.072	5.704	36882	13	6.100	6.355	36924	10	10.420	7.271	36966	10	19.177	8.195
36739	10	20.752	3.106	36811	30	5.486	5.495	36883	20	6.141	6.399	36925	21	10.684	7.472	36967	17	19.760	8.010
36740	12	20.800	3.496	36812	13	5.608	5.201	36884	29	6.308	6.599	36926	13	11.079	7.570	36968	23	19.972	8.730
36741	30	21.139	3.340	36813	21	5.882	5.116	3											



37038	25	23.811	8.879	37110	30	8.885	10.454	37182	18	16.229	11.846	37254	29	23.829	12.818	37326	33	9.801	14.318
37039	14	24.489	8.512	37111	10	9.768	10.724	37183	31	16.974	11.637	37255	24	23.890	12.554	37327	21	9.958	14.083
37040	38	0.393	9.396	37112	28	10.028	10.966	37184	16	17.197	11.559	37256	14	23.976	12.401	37328*	37	10.037	14.346
37041	10	0.724	9.554	37113	20	11.002	10.974	37185	19	18.196	11.460	37257	36	25.206	12.508	37329	14	10.124	14.585
37042	13	0.783	9.064	37114	16	11.185	10.007	37186	10	18.672	11.826	37258*	67	0.927	13.914	37330	13	10.280	14.820
37043	12	1.826	9.636	37115	11	11.250	10.787	37187	13	19.162	11.606	37259	10	1.351	13.232	37331	12	10.675	14.938
37044	12	2.326	9.346	37116	13	11.951	10.996	37188	16	19.340	11.468	37260*	36	1.450	13.488	37332*	40	11.184	14.931
37045	22	4.067	9.541	37117	11	11.982	10.513	37189	10	19.699	11.885	37261	25	3.927	13.936	37333	12	11.570	14.954
37046	13	5.002	9.510	37118	21	12.565	10.000	37190*	40	20.588	11.464	37262	10	5.320	13.938	37334	11	12.114	14.526
37047	34	6.137	9.284	37119	16	13.543	10.652	37191	11	21.171	11.888	37263	27	5.622	13.462	37335*	38	12.990	14.716
37048	11	6.480	9.948	37120	21	13.827	10.340	37192*	9	21.775	11.566	37264	15	5.841	13.990	37336	23	13.758	14.877
37049	13	6.592	9.691	37121	13	14.026	10.642	37193	12	21.784	11.409	37265	11	6.100	13.386	37337	33	13.780	14.334
37050	13	6.746	9.963	37122	33	14.183	10.200	37194	10	21.800	11.506	37266	13	6.188	13.064	37338	19	15.442	14.912
37051	34	7.414	9.548	37123	36	14.877	10.490	37195	20	22.886	11.752	37267	30	6.583	13.352	37339	19	16.002	14.700
37052	10	7.882	9.560	37124	38	14.915	10.970	37196	13	23.050	11.050	37268	16	6.705	13.224	37340	14	16.241	14.850
37053	10	8.572	9.196	37125	31	16.060	10.726	37197	19	23.312	11.449	37269	16	6.770	13.851	37341	10	16.464	14.385
37054	12	8.888	9.144	37126	18	16.688	10.401	37198	10	23.578	11.353	37270	25	6.967	13.324	37342	17	16.657	14.401
37055	10	9.286	9.939	37127	15	16.898	10.804	37199	14	24.602	11.222	37271*	37	7.771	13.780	37343	13	16.694	14.428
37056	12	9.524	9.744	37128	10	17.050	10.253	37200	10	24.621	11.352	37272	12	7.776	13.543	37344	32	16.996	14.464
37057	19	10.089	9.320	37129	10	18.580	10.342	37201	10	24.658	11.677	37273	22	7.813	13.842	37345	13	17.765	14.614
37058	10	11.342	9.860	37130	10	19.097	10.617	37202	10	24.840	11.412	37274	11	8.470	13.753	37346	33	18.066	14.030
37059	14	11.470	9.618	37131	10	19.475	10.846	37203	17	25.874	11.130	37275	24	8.888	13.165	37347	26	18.400	14.943
37060	12	11.560	9.216	37132	10	19.765	10.616	37204	15	25.895	11.728	37276	12	8.908	13.248	37348	34	18.664	14.544
37061	14	11.835	9.538	37133	15	19.955	10.382	37205	44	25.902	11.886	37277	12	9.650	13.380	37349	18	18.820	14.210
37062	11	12.046	9.928	37134	16	20.200	10.521	37206	26	0.596	12.760	37278	12	11.634	13.570	37350	19	20.166	14.728
37063	13	12.734	9.804	37135	30	20.220	10.520	37207	10	1.059	12.208	37279	10	12.184	13.396	37351	10	20.945	14.394
37064	14	13.001	9.725	37136	28	20.400	10.180	37208	27	1.278	12.394	37280	10	13.411	13.336	37352	15	20.952	14.734
37065	31	13.110	9.068	37137	20	21.580	10.414	37209	10	1.548	12.216	37281	12	14.030	13.932	37353	36	21.039	14.829
37066	11	13.537	9.402	37138	23	21.586	10.884	37210*	39	2.525	12.640	37282	31	14.181	13.330	37354	16	22.315	14.562
37067	10	14.196	9.870	37139	12	21.736	10.360	37211*	39	2.991	12.488	37283	16	14.962	13.816	37355	34	22.604	14.714
37068	21	14.775	9.587	37140	12	22.366	10.914	37212	21	3.308	12.754	37284	11	15.508	13.500	37356	10	22.764	14.860
37069	30	14.824	9.112	37141	12	22.706	10.346	37213	14	3.760	12.712	37285	28	16.050	13.799	37357	33	23.350	14.540
37070	21	15.502	9.280	37142	34	24.198	10.759	37214	10	4.794	12.585	37286	10	16.217	13.462	37358	20	24.465	14.864
37071	12	15.690	9.161	37143	33	24.269	10.045	37215	27	5.236	12.117	37287	14	16.860	13.019	37359	21	24.710	14.827
37072	30	15.816	9.610	37144	22	24.540	10.648	37216	11	5.436	12.398	37288	11	18.540	13.346	37360	36	25.286	14.712
37073	12	16.609	9.900	37145	35	25.562	10.218	37217	19	5.759	12.806	37289	28	18.838	13.078	37361	15	25.967	14.804
37074	10	17.486	9.088	37146	17	0.205	11.540	37218	14	5.925	12.558	37290*	41	19.078	13.865	37362	13	0.298	15.864
37075	18	18.298	9.840	37147	16	0.548	11.622	37219	12	6.236	12.148	37291	17	19.934	13.029	37363	21	1.253	15.502
37076	16	18.380	9.932	37148	15	0.622	11.256	37220	10	6.648	12.262	37292	28	21.062	13.270	37364	32	1.355	15.192
37077	29	18.386	9.804	37149	10	1.115	11.732	37221	14	6.708	12.832	37293	32	21.414	13.161	37365	12	1.370	15.426
37078	11	18.590	9.600	37150	10	2.101	11.908	37222	16	6.819	12.650	37294	21	22.132	13.036	37366	29	1.590	15.092
37079	15	18.614	9.576	37151	26	3.159	11.200	37223	18	7.036	12.282	37295	34	22.385	13.768	37367	10	1.774	15.740
37080	10	18.855	9.097	37152	12	4.674	11.500	37224	18	7.110	12.618	37296	34	22.393	13.490	37368	10	1.846	15.990
37081	11	18.900	9.952	37153	16	5.396	11.136	37225	15	7.141	12.022	37297	11	22.432	13.787	37369	10	1.864	15.314
37082	26	18.965	9.181	37154	14	5.936	11.606	37226	12	7.939	12.981	37298	11	22.502	13.303	37370	16	2.286	15.324
37083	15	21.876	9.678	37155	14	6.066	11.790	37227	36	9.090	12.714	37299	32	24.123	13.714	37371	16	3.825	15.954
37084	15	22.584	9.708	37156	17	6.084	11.891	37228	34	9.383	12.554	37300	14	24.304	13.300	37372	10	5.055	15.222
37085	17	22.712	9.116	37157	17	6.374	11.952	37229	26	10.105	12.649	37301	10	24.784	13.965	37373	21	5.726	15.115
37086	11	23.291	9.893	37158	17	6.686	11.624	37230	12	10.476	12.540	37302	24	25.082	13.527	37374	17	5.742	15.219
37087	12	24.042	9.950	37159	18	6.864	11.095	37231	28	11.369	12.242	37303	33	0.386	14.954	37375	21	6.936	15.226
37088	19	24.092	9.229	37160	10	6.930	11.231	37232	11	11.571	12.264	37304	11	0.396	14.660	37376	17	7.037	15.001
37089*	44	24.151	9.548	37161	10	7.010	11.150	37233	17	11.768	12.182	37305*	42	1.675	14.314	37377	10	7.830	15.237
37090*	46	24.332	9.429	37162	13	7.142	11.572	37234	12	11.941	12.436	37306	34	2.147	14.214	37378	20	9.806	15.493
37091	24	0.461	10.460	37163	31	7.282	11.793	37235	24	13.764	12.534	37307	18	2.398	14.077	37379	17	10.188	15.248
37092	14	0.736	10.839	37164	11	7.294	11.894	37236	12	13.813	12.937	37308	24	3.285	14.791	37380	16	10.662	15.989
37093	26	0.892	10.733	37165	15	8.519	11.476	37237	24	14.066	12.698	37309	12	3.624	14.107	37381	11	11.382	15.664
37094	20	2.726	10.696	37166	25	8.570	11.918	37238	15	14.108	12.368	37310	14	3.983	14.453	37382	11	11.826	15.700
37095	21	3.265	10.190	37167	10	10.004	11.285	37239	11	14.688	12.729	37311	10	5.130	14.926	37383	29	12.250	15.128
37096	24	3.303	10.710	37168	23	10.258	11.316	37240	11	15.035	12.140	37312	12	5.218	14.712	37384*	34	12.918	15.366
37097	29	3.395	10.126	37169	19	10.598	11.516	37241	13	15.038	12.578	37313	32	5.307	14.656	37385	27	13.020	15.617
37098	15	3.830	10.558	37170*	46	11.384	11.032	37242	12	15.046	12.504	37314	19	5.770	14.868	37386	14	13.160	15.992
37099	18	3.884	10.534	37171	12	11.574	11.340	37243	38	15.204	12.619	37315	35	6.122	14.218	37387	28	13.211	15.427
37100																			



37398	25	17-405	15-315	37470	12	0-111	17-857	37542	32	3-270	18-100	37614	32	0-331	19-272	37686	10	10-973	20-330
37399	32	18-807	15-946	37471	11	0-292	17-936	37543	23	3-578	18-040	37615	13	10-419	19-040	37687	34	17-885	20-800
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37402	23	21-012	15-741	37474	18	1-531	17-200	37546	25	5-076	18-034	37618	16	12-107	19-208	37690	31	18-347	20-193
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37404	11	21-111	15-894	37476	12	2-115	17-510	37548	22	6-906	18-270	37620	16	13-325	19-580	37692	41	18-874	20-456
37405	11	21-158	15-298	37477	14	2-570	17-000	37549	13	7-852	18-172	37621	11	14-472	19-398	37693	20	19-165	20-067
37406	18	21-392	15-512	37478	20	4-054	17-347	37550	13	9-082	18-420	37622	27	16-068	19-858	37694	11	19-221	20-889
37407	18	21-918	15-498	37479	20	4-396	17-820	37551	13	9-252	18-100	37623	17	16-220	19-994	37695	10	19-491	20-298
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37409	11	22-762	15-380	37481	18	4-455	17-848	37553	34	9-850	18-433	37625	11	17-798	19-668	37697	13	20-184	20-018
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37411	37	22-951	15-920	37483	21	5-490	17-234	37555	41	10-884	18-529	37627	11	18-364	19-671	37699	11	20-990	20-952
37412	18	22-988	15-618	37484	11	5-982	17-120	37556	26	10-901	18-311	37628	42	18-945	19-280	37700	13	21-269	20-982
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37418	13	0-300	16-538	37490	22	7-854	17-004	37562	10	14-400	18-208	37634	13	20-803	19-410	37706	20	23-252	20-782
37419	11	1-564	16-988	37491	12	8-322	17-516	37563	18	14-418	18-658	37635	53	21-616	19-334	37707	11	24-035	20-490
37420	34	2-173	16-827	37492	41	8-334	17-310	37564	15	14-779	18-912	37636	11	21-847	19-290	37708	21	24-503	20-492
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37422	12	2-800	16-104	37494	46	9-390	17-309	37566	16	15-228	18-703	37638	21	23-054	19-361	37710	13	1-600	21-533
37423	26	2-940	16-250	37495	12	10-050	17-657	37567	12	15-640	18-844	37639	22	23-684	19-131	37711	15	3-044	21-370
37424	23	3-591	16-850	37496	24	10-680	17-004	37568	32	15-915	18-232	37640	23	24-206	19-252	37712	10	3-280	21-465
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37427	11	4-440	16-736	37499	12	11-564	17-430	37571	32	16-408	18-210	37643	42	24-450	19-149	37715	18	4-419	21-750
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37433	54	8-478	16-834	37505	73	14-093	17-460	37577	13	18-582	18-816	37649	14	0-328	20-596	37721	14	5-900	21-936
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37435	36	8-678	16-212	37507	15	14-826	17-255	37579	32	19-891	18-945	37651	13	0-947	20-108	37723	12	6-990	21-776
37436	33	9-198	16-762	37508	40	15-056	17-874	37580	13	20-331	18-020	37652	12	3-461	20-839	37724	26	7-043	21-582
37437	30	9-803	16-826	37509	10	15-154	17-872	37581	13	20-750	18-129	37653	21	4-236	20-012	37725	37	7-044	21-221
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37439	23	10-990	16-626	37511	22	15-666	17-001	37583	25	21-833	18-741	37655	28	4-412	20-296	37727	23	7-436	21-470
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37443	25	13-040	16-456	37515	33	16-295	17-150	37587	13	23-580	18-908	37659	22	6-212	20-306	37731	20	8-980	21-590
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37446	11	14-790	16-636	37518	24	16-552	17-070	37590	32	25-052	18-876	37662	12	8-970	20-112	37734	44	9-868	21-652
37447	31	15-537	16-060	37519	15	16-620	17-618	37591	34	0-255	19-840	37663	31	9-301	20-622	37735	38	10-039	21-438
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37458	26	18-596	16-249	37530	23	20-948	17-551	37602	41	5-630	19-608	37674	29	13-702	20-684	37746	14	14-702	21-306
37459	33	19-934	16-770	37531	24	21-842	17-926	37603	21	5-818	19-982	37675	17	13-846					



37758	11	18.154	21.171	37830	11	23.190	22.232	37902	30	4.788	24.656	37974	16	9.359	25.870	38066	9	10.112	0.956
37759	24	18.143	21.104	37831	28	23.431	22.135	37903	10	5.119	24.132	37975	13	9.488	25.815	38067	28	10.750	0.366
37760	20	18.572	21.279	37832	14	23.556	22.002	37904	34	5.792	24.014	37976	39	9.082	25.300	38068	47	11.061	0.150
37761	10	18.573	21.514	37833	18	24.702	22.858	37905	12	5.858	24.080	37977	28	10.952	25.911	38069	28	11.192	0.640
37762	18	18.628	21.534	37834	27	24.991	22.936	37906	19	5.885	24.108	37978	10	11.824	25.950	38070	22	13.248	0.504
37763	26	18.785	21.138	37835	11	0.917	23.055	37907	34	5.962	24.822	37979	11	13.206	25.574	38071	36	14.202	0.102
37764	25	18.786	21.068	37836	27	1.096	23.242	37908	29	6.508	24.036	37980	37	13.328	25.682	38072	17	14.459	0.468
37765	14	19.718	21.300	37837	10	1.252	23.940	37909	37	6.864	24.677	37981	34	15.032	25.037	38073	19	15.428	0.724
37766	12	19.820	21.410	37838	33	1.796	23.920	37910	37	7.548	24.010	37982	16	15.375	25.038	38074	27	15.764	0.747
37767	29	19.984	21.711	37839	10	2.029	23.234	37911	12	7.590	24.073	37983	21	15.439	25.410	38075	11	15.800	0.782
37768	32	20.352	21.149	37840	15	2.243	23.825	37912	37	7.824	24.822	37984	10	15.796	25.675	38076	14	15.824	0.632
37769	13	20.057	21.440	37841	32	2.247	23.847	37913	11	7.918	24.499	37985	15	17.375	25.038	38077	21	16.280	0.566
37770	20	20.717	21.970	37842	20	2.496	23.430	37914	10	8.079	24.233	37986	34	17.714	25.267	38078	16	16.985	0.665
37771	25	21.716	21.030	37843	27	4.310	23.370	37915	21	8.566	24.324	37987	14	17.875	25.277	38079	54	18.012	0.121
37772	28	22.635	21.179	37844	13	4.476	23.198	37916	33	8.843	24.090	37988	10	18.785	25.916	38080	32	18.040	0.161
37773	19	22.939	21.680	37845	10	4.651	23.836	37917	18	9.234	24.658	37989	23	18.949	25.366	38081	52	18.099	0.279
37774	14	24.316	21.260	37846	10	5.657	23.350	37918	16	9.850	24.392	37990	10	19.054	25.993	38082	20	18.299	0.944
37775	32	24.542	21.202	37847	22	5.774	23.567	37919	21	9.906	24.494	37991	34	19.394	25.633	38083	11	19.175	0.614
37776	36	25.346	21.450	37848	32	6.886	23.498	37920	30	10.480	24.290	37992	10	19.790	25.248	38084	16	19.180	0.684
37777	32	0.034	22.614	37849	14	6.925	23.510	37921	12	10.746	24.068	37993	10	20.400	25.552	38085	49	20.354	0.678
37778	17	0.770	22.900	37850	44	7.530	23.798	37922	16	11.232	24.958	37994	15	21.412	25.345	38086	17	20.712	0.109
37779	42	1.580	22.016	37851	30	7.717	23.804	37923	14	11.318	24.086	37995	31	21.686	25.752	38087	24	22.182	0.980
37780	31	1.648	22.969	37852	23	7.864	23.534	37924	10	11.408	24.750	37996	10	22.066	25.348	38088	18	22.564	0.880
37781	29	1.797	22.555	37853	13	7.985	23.770	37925	34	11.904	24.324	37997	29	22.158	25.052	38089	11	22.667	0.229
37782	22	2.123	22.330	37854	12	8.334	23.447	37926	34	11.934	24.966	37998	33	22.163	25.519	38090	58	22.865	0.045
37783	21	2.480	22.645	37855	11	9.034	23.293	37927	13	12.508	24.770	37999	14	22.376	25.638	38091	10	23.274	0.300
37784	25	3.166	22.022	37856	13	9.202	23.710	37928	12	12.584	24.870	38000	10	22.942	25.918	38092	11	25.354	0.846
37785	16	3.189	22.917	37857	13	9.352	23.268	37929	24	12.897	24.899	38001	31	23.412	25.020	38093	15	25.763	0.239
37786	31	3.215	22.632	37858	37	9.580	23.838	37930	15	13.749	24.676	38002	15	23.511	25.045	38094	14	0.092	1.558
37787	21	3.512	22.678	37859	13	9.841	23.492	37931	10	14.481	24.786	38003	29	25.101	25.854	38095	13	0.585	1.892
37788	10	3.516	22.426	37860	13	10.252	23.041	37932	13	14.935	24.002	38004	11	25.138	25.345	38096	22	0.993	1.562
37789	24	3.960	22.380	37861	10	11.279	23.508	37933	12	15.076	24.976	38005	32	25.763	25.769	38097	33	1.815	1.837
37790	18	4.092	22.132	37862	11	11.670	23.836	37934	12	15.656	24.899	38006	28	25.981	25.220	38098	33	2.655	1.472
37791	31	5.221	22.288	37863	23	12.599	23.894	37935	15	16.095	24.764					38099	14	3.225	1.620
37792	15	5.430	22.305	37864	11	12.710	23.122	37936	26	16.112	24.050					38100	24	3.314	1.752
37793	19	6.250	22.966	37865	31	13.342	23.176	37937	37	16.190	24.490					38101	11	5.277	1.180
37794	25	6.369	22.938	37866	12	13.646	23.042	37938	36	16.562	24.694					38102	12	5.818	1.982
37795	11	6.764	22.240	37867	27	14.219	23.340	37939	36	16.620	24.972					38103	13	6.098	1.814
37796	25	7.312	22.236	37868	26	14.459	23.082	37940	12	16.660	24.748					38104	13	6.608	1.950
37797	11	7.460	22.926	37869	23	15.024	23.550	37941	14	16.683	24.230					38105	17	6.930	1.368
37798	12	7.489	22.283	37870	14	15.090	23.604	37942	12	16.950	24.490					38106	14	6.995	1.278
37799	32	8.450	22.110	37871	28	15.180	23.190	37943	29	17.084	24.740					38107	12	7.060	1.697
37800	15	8.735	22.972	37872	22	15.243	23.872	37944	30	17.264	24.508					38108	10	7.722	1.376
37801	19	8.794	22.216	37873	18	15.346	23.463	37945	24	17.578	24.650					38109	44	8.226	1.176
37802	10	9.418	22.800	37874	24	15.744	23.858	37946	10	17.851	24.557					38110	13	8.986	1.850
37803	20	9.888	22.980	37875	10	15.874	23.291	37947	18	18.189	24.318					38111	33	10.752	1.173
37804	17	10.479	22.390	37876	10	16.290	23.897	37948	22	18.416	24.412					38112	18	11.302	1.232
37805	31	10.764	22.078	37877	11	16.628	23.773	37949	11	18.998	24.320					38113	11	11.485	1.150
37806	12	11.031	22.639	37878	10	17.002	23.774	37950	22	19.811	24.515					38114	19	11.592	1.612
37807	30	11.044	22.108	37879	10	17.095	23.448	37951	11	19.960	24.451					38115	22	11.794	1.173
37808	12	11.920	22.470	37880	19	17.890	23.631	37952	10	20.782	24.578					38116	10	11.898	1.784
37809	68	12.324	22.608	37881	12	18.056	23.730	37953	30	21.370	24.516					38117	12	12.459	1.446
37810	10	12.708	22.825	37882	16	19.402	23.484	37954	35	22.497	24.454					38118	49	12.936	1.372
37811	19	12.848	22.516	37883	10	20.100	23.359	37955	13	22.682	24.544					38119	42	13.506	1.106
37812	20	13.618	22.818	37884	27	21.154	23.259	37956	14	24.142	24.909					38120	32	13.863	1.312
37813	17	13.966	22.620	37885	15	21.421	23.744	37957	12	24.448	24.946					38121	31	16.672	1.358
37814	12	14.470	22.150	37886	29	22.650	23.480	37958	13	0.379	25.774					38122	44	16.794	1.982
37815	26	15.046	22.140	37887	25	23.020	23.591	37959	33	0.636	25.502					38123	14	17.135	1.472
37816	35	15.322	22.559	37888	41	23.166	23.560	37960	20	1.352	25.858					38124	16	17.850	1.604
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39232	9	12.294	20.539	39304	11	17.693	21.960	39376	43	19.671	22.705	39448	15	1.706	24.962	39520	27	11.106	25.010
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39235	10	13.234	20.317	39307	15	18.966	21.788	39379	10	20.952	22.156	39451	12	3.702	24.398	39523	31	11.951	25.742
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39240	23	15.174	20.226	39312	31	19.613	21.146	39384	16	22.237	22.977	39456	11	7.224	24.217	39528	36	14.742	25.906
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39243	33	17.064	20.020	39315	15	21.044	21.232	39387	12	25.216	22.678	39459	8	9.227	24.776	39531	37	16.064	25.196
39244	22	17.274	20.508	39316	17	21.402	21.801	39388	32	25.523	22.378	39460	23	9.454	24.598	39532	9	16.316	25.960
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39248	26	18.583	20.388	39320	20	22.420	21.468	39392	24	1.905	23.550	39464	13	10.195	24.455	39536	18	18.390	25.534
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39251	10	21.560	20.506	39323	15	0.354	22.160	39395	22	2.484	23.749	39467	9	10.740	24.876	39539	21	19.172	25.582
39252	26	23.166	20.090	39324	12	0.528	22.794	39396	26	2.647	23.846	39468	26	10.985	24.688	39540	32	19.932	25.823
39253	27	23.567	20.236	39325	23	0.530	22.379	39397	10	3.282	23.460	39469	16	11.520	24.506	39541	8	20.076	25.236
39254	32	23.582	20.184	39326	28	0.821	22.464	39398	13	4.182	23.056	39470	39	11.642	24.907	39542	66	25.296	25.743
39255	28	24.838	20.998	39327	23	0.846	22.841	39399	31	4.562	23.364	39471	10	12.390	24.153				
39256	20	25.426	20.671	39328	9	1.354	22.154	39400	10	4.841	23.243	39472	15	12.583	24.122				
39257	21	25.565	20.862	39329	24	1.592	22.053	39401	14	6.490	23.339	39473	12	13.416	24.016				
39258	9	25.801	20.660	39330	12	2.226	22.482	39402	12	6.528	23.722	39474	42	13.710	24.680				
39259	25	0.786	21.103	39331	14	2.228	22.587	39403	11	6.552	23.372	39475	33	14.058	24.512				
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39261	15	1.714	21.978	39333	19	2.872	22.762	39405	11	8.102	23.372	39477	21	14.998	24.286				
39262	18	2.467	21.168	39334	28	3.161	22.840	39406	9	9.121	23.502	39478	9	15.990	24.090				
39263	11	2.592	21.760	39335	13	5.186	22.878	39407	14	9.618	23.594	39479	13	16.230	24.335				
39264	33	2.692	21.110	39336	23	5.244	22.130	39408	22	10.282	23.776	39480	11	17.340	24.670				
39265	13	3.115	21.560	39337	35	5.420	22.578	39409	9	10.498	23.200	39481	29	17.512	24.074				
39266	43	3.496	21.350	39338	11	5.744	22.012	39410	19	11.439	23.560	39482	10	17.699	24.933				
39267	10	4.211	21.653	39339	24	6.283	22.655	39411	20	12.214	23.974	39483	18	18.259	24.436				
39268	17	4.870	21.420	39340	23	6.290	22.378	39412	11	12.262	23.827	39484	10	19.921	24.880				
39269	23	5.598	21.882	39341	40	6.634	22.191	39413	42	13.224	23.196	39485	10	20.056	24.716				
39270	27	5.630	21.839	39342	32	7.068	22.736	39414	12	13.256	23.915	39486	15	20.155	24.766				
39271	12	5.756	21.076	39343	9	7.868	22.162	39415	10	14.198	23.040	39487	22	20.439	24.318				
39272	22	6.008	21.794	39344	16	8.549	22.592	39416	45	14.566	23.567	39488	15	20.524	24.781				
39273	23	6.126	21.825	39345	23	9.370	22.159	39417	18	14.788	23.666	39489	35	20.912	24.312				
39274	13	6.754	21.216	39346	20	9.377	22.930	39418	10	15.592	23.715	39490	29	21.306	24.188				
39275	11	7.390	21.822	39347	31	9.623	22.920	39419	37	16.465	23.528	39491	19	21.534	24.478				
39276	29	7.404	21.500	39348	39	9.876	22.140	39420	27	16.900	23.530	39492	44	21.638	24.563				
39277	12	7.507	21.312	39349	27	10.104	22.333	39421	8	17.264	23.832	39493	35	22.206	24.642				
39278	15	7.614	21.057	39350	21	10.722	22.516	39422	10	17.524	23.685	39494	14	24.168	24.828				
39279	36	8.267	21.466	39351	12	11.249	22.602	39423	18	17.649	23.282	39495	13	25.300	24.650				
39280	32	8.310	21.582	39352	18	11.378	22.168	39424	23	17.940	23.564	39496	10	25.650	24.696				
39281	18	9.088	21.582	39353	10	11.500	22.253	39425	28	17.986	23.882	39497	31	0.363	25.448				
39282	9	9.208	21.022	39354	20	11.630	22.971	39426	22	18.740	23.884	39498	11	0.577	25.566				



39562	11	7-188	0-944	39634	16	7-091	2-312	39706	42	0-110	4-205	39778	20	8-609	5-078	39850	11	13-504	6-052
39563	17	8-084	0-466	39635	32	7-264	2-830	39707	14	0-596	4-023	39779	22	8-948	5-070	39851	15	14-002	6-465
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39932	38	25.224	7.205	40004	13	24.650	8.314	40076	8	6.430	10.256	40148	20	11.356	11.410	40220	19	16.240	12.066
39933	98	25.226	7.882	40005	18	25.000	8.701	40077	21	6.937	10.528	40149	33	11.564	11.126	40221	28	16.858	12.094
39934	21	25.246	7.835	40006	22	1.131	9.589	40078	15	7.456	10.534	40150	11	12.390	11.084	40222	15	16.982	12.476
39935	13	25.444	7.587	40007	17	1.644	9.957	40079	25	7.744	10.435	40151	9	12.735	11.314	40223	23	17.164	12.525
39936	25	25.730	7.786	40008	17	2.104	9.686	40080	14	8.104	10.876	40152	22	13.324	11.794	40224	19	17.696	12.113
39937	36	25.806	7.452	40009	15	2.745	9.126	40081	9	8.373	10.191	40153	13	13.665	11.496	40225	12	17.813	12.549
39938	14	0.204	8.377	40010	14	4.296	9.844	40082	13	8.627	10.345	40154	10	13.736	11.376	40226	15	17.820	12.032
39939	23	0.314	8.096	40011	18	4.444	9.638	40083	17	8.771	10.125	40155	19	13.948	11.905	40227	19	18.248	12.744
39940	16	0.406	8.156	40012	27	4.830	9.886	40084	11	9.270	10.116	40156	11	13.948	11.768	40228	11	19.287	12.406
39941	20	0.740	8.555	40013	24	4.985	9.248	40085	12	9.346	10.176	40157	11	14.304	11.812	40229	18	19.370	12.466
39942	22	2.206	8.064	40014	15	5.404	9.184	40086	14	9.868	10.598	40158	15	15.949	11.734	40230	20	20.544	12.104
39943	15	3.066	8.924	40015	19	5.466	9.917	40087	21	10.372	10.609	40159	15	16.192	11.908	40231	18	20.554	12.256
39944	15	3.094	8.907	40016	17	5.744	9.584	40088	16	10.574	10.271	40160	9	16.214	11.874	40232	21	20.909	12.500
39945	15	3.435	8.205	40017	22	5.915	9.546	40089	34	10.850	10.554	40161	15	16.334	11.572	40233	20	21.096	12.730
39946	14	3.530	8.503	40018	10	6.034	9.976	40090	13	11.437	10.856	40162	13	17.094	11.665	40234	8	21.139	12.354
39947	15	3.675	8.514	40019	14	6.082	9.866	40091	18	11.472	10.828	40163	12	17.204	11.806	40235	17	21.286	12.004
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39949	11	5.224	8.502	40021	20	6.482	9.133	40093	12	13.740	10.444	40165	39	17.806	11.577	40237	14	21.712	12.844
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39953	13	6.671	8.674	40025	13	7.800	9.445	40097	11	16.833	10.951	40169	23	20.202	11.904	40241	12	23.174	12.549
39954	46	7.357	8.958	40026	16	9.386	9.665	40098	19	16.887	10.716	40170	20	20.224	11.654	40242	13	23.484	12.616
39955	14	7.604	8.881	40027	14	9.496	9.541	40099	13	17.238	10.826	40171	18	20.356	11.287	40243	15	23.865	12.394
39956	20	7.768	8.676	40028	19	9.774	9.480	40100	20	17.328	10.576	40172	21	20.847	11.802	40244	20	25.145	12.246
39957	17	8.220	8.574	40029	21	10.098	9.835	40101	15	17.536	10.452	40173	11	22.100	11.705	40245	19	25.370	12.534
39958	10	9.050	8.476	40030	12	10.144	9.387	40102	14	17.946	10.824	40174	16	22.767	11.448	40246	18	25.404	12.385
39959	20	9.160	8.066	40031	18	10.824	9.750	40103	14	18.134	10.746	40175	20	23.118	11.582	40247	28	25.418	12.692
39960	17	9.309	8.361	40032	38	10.911	9.548	40104	33	18.634	10.692	40176	25	23.224	11.278	40248	24	25.666	12.161
39961	11	9.600	8.293	40033	19	12.984	9.256	40105	12	18.886	10.455	40177	15	23.356	11.586	40249	14	0.732	13.226
39962	14	9.954	8.165	40034	15	13.327	9.416	40106	15	19.024	10.412	40178	13	23.627	11.914	40250	16	0.966	13.255
39963	16	10.654	8.434	40035	15	14.381	9.378	40107	8	19.040	10.930	40179	19	24.952	11.836	40251	12	1.646	13.132
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39977	15	15.584	8.572	40049	19	19.286	9.124	40121	19	23.924	10.490	40193	10	5.448	12.716	40265	58	6.976	13.262
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40684	15	19-110	19-024	40756	23	1-458	21-456	40828	27	9-410	22-676	40900	24	16-224	23-145	40972	14	2-732	25-781
40685	9	19-294	19-494	40757	11	1-516	21-614	40829	11	9-685	22-496	40901	15	16-260	23-247	40973	17	4-106	25-025
40686	10	19-794	19-698	40758	27	3-216	21-346	40830	23	10-278	22-004	40902	16	16-384	23-650	40974	11	4-146	25-482
40687	18	19-876	19-426	40759	23	3-796	21-005	40831	18	10-286	22-008	40903	10	16-756	23-604	40975	16	4-931	25-894
40688	14	20-204	19-314	40760	23	3-941	21-194	40832	16	10-778	22-486	40904	22	16-814	23-080	40976	19	5-084	25-546
40689	24	20-274	19-818	40761	14	4-264	21-232	40833	18	11-339	22-074	40905	16	17-284	23-064	40977	15	5-674	25-925
40690	20	20-620	19-546	40762	12	4-750	21-475	40834	15	11-854	22-695	40906	38	17-629	23-896	40978	20	5-778	25-562
40691	13	20-709	19-756	40763	18	6-041	21-534	40835	16	12-504	22-824	40907	16	19-234	23-126	40979	13	5-942	25-984
40692	26	22-107	19-091	40764	13	6-406	21-294	40836	10	12-518	22-219	40908	24	19-254	23-529	40980	18	6-734	25-026
40693	30	23-165	19-472	40765	10	6-638	21-927	40837	19	14-004	22-192	40909	16	20-088	23-876	40981	19	6-914	25-080
40694	46	23-635	19-376	40766	35	6-800	21-154	40838	20	14-873	22-626	40910	13	20-367	23-796	40982	16	7-528	25-414
40695	22	23-886	19-343	40767	14	6-909	21-696	40839	18	15-325	22-734	40911	18	24-002	23-074	40983	14	7-926	25-074
40696	15	24-094	19-033	40768	37	7-016	21-785	40840	14	15-650	22-975	40912	25	24-155	23-646	40984	41	8-106	25-970
40697	13	24-262	19-844	40769	9	7-184	21-988	40841	64	15-666	22-118	40913	13	24-164	23-078	40985	16	8-736	25-706
40698	26	24-755	19-584	40770	16	7-272	21-615	40842	16	15-874	22-453	40914	21	24-586	23-098	40986	19	9-104	25-048
40699	17	24-814	19-708	40771	10	7-656	21-186	40843	12	16-503	22-085	40915	11	24-800	23-679	40987	15	9-165	25-364
40700	23	25-348	19-604	40772	14	7-954	21-316	40844	20	17-284	22-356	40916	25	24-957	23-956	40988	33	9-510	25-154
40701	16	25-514	19-202	40773	12	7-986	21-381	40845	21	18-528	22-986	40917	24	25-232	23-234	40989	16	9-558	25-012
40702	23	25-658	19-946	40774	16	8-140	21-680	40846	22	19-328	22-246	40918	37	25-616	23-906	40990	9	10-164	25-214
40703	22	1-524	20-474	40775	19	8-334	21-588	40847	22	19-474	22-979	40919	42	0-091	24-983	40991</			



41002	11	15.709	25.200	41082	39	20.902	0.221	41154	21	17.215	2.685	41221	10	16.880	1.111	41298	18	8.914	6.674
41003	16	15.816	25.380	41083	58	20.992	0.616	41155	17	17.240	2.517	41227	11	17.260	1.140	41299	17	6.350	6.456
41004	22	16.064	25.366	41084	23	21.883	0.918	41156	28	17.614	2.971	41228	20	17.280	1.416	41300	45	11.454	6.036
41005	11	16.774	25.274	41085	42	22.497	0.228	41157	40	20.780	2.800	41229	21	18.520	4.010	41301	31	11.724	6.867
41006	14	16.850	25.334	41086	16	23.490	0.028	41158	10	21.000	2.050	41230	40	18.014	1.371	41302	12	11.975	6.097
41007	15	17.032	25.799	41087	18	24.267	0.451	41159	11	22.008	2.312	41231	27	19.048	4.147	41303	10	12.043	6.817
41008	11	17.164	25.144	41088	14	0.661	1.408	41160	11	21.354	2.850	41232	30	19.316	1.198	41304	30	15.386	6.992
41009	42	17.586	25.645	41089	23	1.793	1.740	41161	12	24.868	2.782	41233	8	19.818	4.712	41305	9	17.475	6.006
41010	13	20.450	25.678	41090	16	1.832	1.594	41162	13	25.752	2.865	41234	22	20.312	4.790	41306	27	17.936	6.428
41011	13	20.562	25.396	41091	36	1.954	1.086	41163	12	1.344	3.074	41235	9	20.607	4.130	41307	43	18.110	6.002
41012	58	20.686	25.662	41092	22	2.488	1.430	41164	9	1.596	3.110	41236	26	22.300	4.182	41308	10	18.483	6.388
41013	37	20.825	25.026	41093	10	5.818	1.572	41165	16	1.844	3.329	41237	40	23.847	1.133	41309	11	19.178	6.348
41014	36	20.954	25.305	41094	32	6.516	1.535	41166	10	2.432	3.500	41238	14	23.016	4.328	41310	18	19.614	6.503
41015	30	21.630	25.057	41095	25	7.230	1.082	41167	11	2.573	3.137	41239	38	0.644	5.884	41311	13	19.688	6.629
41016	48	21.650	25.228	41096	9	7.783	1.507	41168	12	2.706	3.304	41240	13	0.811	5.229	41312	13	20.434	6.094
41017	30	22.133	25.794	41097	22	8.326	1.718	41169	13	3.211	3.715	41241	13	1.543	5.321	41313	13	20.517	6.069
41018	16	24.794	25.955	41098	35	8.482	1.770	41170	11	3.804	3.604	41242	10	2.099	5.305	41314	13	20.596	6.625
<b>R.A. 8<sup>h</sup> 28<sup>m</sup></b> Plate 1574, 1920 Feb 14. <i>Provisional Constants.</i> A            B            C -01738 ÷ 00662 -1182 D            E            F -00664 -01758 -3521 Mag. = 16.8 - 1.05√d				41099	12	9.140	1.931	41171	39	3.947	3.730	41243	16	3.279	5.018	41315	14	20.680	6.276
				41100	28	9.159	1.611	41172	30	4.360	3.630	41244	16	3.728	5.727	41316	24	21.682	6.006
				41101	43	9.492	1.118	41173	9	4.378	3.866	41245	11	3.833	5.485	41317	34	22.111	6.884
				41102	17	10.253	1.620	41174	9	4.455	3.510	41246	14	4.254	5.570	41318	25	22.979	6.524
				41103	20	11.336	1.063	41175	34	5.062	3.402	41247	32	5.150	5.620	41319	13	23.222	6.126
				41104	19	11.530	1.330	41176	15	6.480	3.209	41248	10	5.526	5.186	41320	14	23.253	6.354
				41105	40	12.349	1.612	41177	20	6.906	3.563	41249	13	6.271	5.589	41321	11	25.374	6.694
				41106	11	12.642	1.668	41178	10	7.103	3.394	41250	10	6.618	5.308	41322	14	25.470	6.997
				41107	12	12.698	1.772	41179	20	10.220	3.713	41251	23	6.656	5.305	41323	47	0.662	7.813
				41108	28	12.758	1.434	41180	39	11.066	3.586	41252	36	6.776	5.305	41324	31	2.076	7.434
				41109	11	14.048	1.110	41181	42	12.772	3.374	41253	41	6.900	5.575	41325	17	2.572	7.790
				41110	13	14.262	1.667	41182	23	13.788	3.928	41254	30	8.020	5.434	41326	49	2.756	7.873
				41111	17	14.310	1.608	41183	17	14.908	3.987	41255	14	8.516	5.669	41327	104	2.966	7.925
				41112	19	15.500	1.305	41184	20	15.081	3.299	41256	8	9.065	5.611	41328	44	2.908	7.247
				41113	27	15.668	1.670	41185	13	15.914	3.043	41257	14	9.260	5.910	41329	25	2.939	7.878
				41114	26	16.037	1.453	41186	14	16.050	3.234	41258	11	9.870	5.832	41330	10	3.134	7.627
				41115	16	16.123	1.614	41187	9	16.374	3.372	41259	15	10.106	5.245	41331	31	3.418	7.826
				41116	25	16.259	1.086	41188	9	17.148	3.913	41260	33	10.754	5.238	41332	37	3.492	7.492
				41117	16	16.435	1.852	41189	26	18.792	3.833	41261	13	11.738	5.468	41333	26	3.866	7.993
				41118	29	16.800	1.637	41190	47	19.084	3.076	41262	40	12.076	5.290	41334	12	3.979	7.699
				41119	10	18.752	1.460	41191	41	19.354	3.918	41263	11	12.596	5.892	41335	14	4.168	7.576
				41120	38	18.870	1.154	41192	37	19.792	3.909	41264	12	13.558	5.278	41336	13	4.474	7.548
				41121	21	19.748	1.855	41193	18	22.045	3.035	41265	13	13.662	5.706	41337	24	5.150	7.366
				41122	15	19.861	1.448	41194	9	22.551	3.846	41266	14	13.730	5.372	41338	13	6.250	7.311
				41123	18	20.490	1.934	41195	13	23.163	3.500	41267	44	14.636	5.848	41339	54	6.466	7.252
				41124	20	20.864	1.034	41196	43	24.460	3.872	41268	11	15.552	5.141	41340	26	6.612	7.616
				41125	32	21.228	1.307	41197	10	25.724	3.278	41269	12	15.903	5.884	41341	12	6.757	7.160
				41126	14	23.060	1.598	41198	28	0.334	4.069	41270	11	16.406	5.686	41342	14	7.138	7.118
				41127	40	23.848	1.626	41199	11	0.546	4.046	41271	18	16.504	5.028	41343	20	7.300	7.202
				41128	18	0.085	2.720	41200	9	0.552	4.408	41272	15	16.708	5.911	41344	35	7.540	7.644
				41129	19	0.130	2.248	41201	15	1.326	4.501	41273	23	16.930	5.563	41345	12	8.475	7.204
				41130	11	1.730	2.353	41202	16	2.019	4.140	41274	66	17.485	5.530	41346	10	8.774	7.985
				41131	29	2.576	2.611	41203	20	2.120	4.204	41275	10	17.893	5.853	41347	18	9.505	7.330
				41132	42	2.837	2.882	41204	35	2.309	4.883	41276	16	17.991	5.995	41348	9	9.680	7.927
				41133	24	3.406	2.942	41205	27	2.718	4.573	41277	12	18.070	5.831	41349	16	10.306	7.654
				41134	20	4.036	2.142	41206	13	2.766	4.642	41278	33	18.842	5.800	41350	16	11.035	7.418
				41135	32	4.274	2.792	41207	49	2.928	4.152	41279	30	19.392	5.812	41351	31	12.213	7.438
				41136	36	5.146	2.482	41208	10	3.236	4.195	41280	15	19.702	5.920	41352	11	12.476	7.408
				41137	16	5.232	2.932	41209	19	3.540	4.808	41281	28	20.066	5.790	41353	15	14.396	7.394
				41138	22	5.550	2.554	41210	10	4.565	4.753	41282	23	21.324	5.564	41354	23	14.514	7.337
				41139	17	6.486	2.233	41211	10	5.497	1.244	41283	10	21.880	5.465	41355	10	14.858	7.819
				41140	13	7.284	2.670	41212	22	6.350	4.034	41284	13	22.690	5.600	41356	18	15.229	7.839
				41141	19	7.370	2.654	41213	11	6.640	1.438	41285	13	24.643	5.958	41357	10	15.267	7.904
				41142	11	9.799	2.338	41214	30	7.549	4.783	41286	17	25.546	5.162	41358	34	16.716	7.587
				41143	21	9.982	2.732	41215	31	7.880	4.584	41287	38	1.136	6.397	41359	14	17.783	7.213
				41144	14	12.172	2.246	41216	17	9.100	4.666	41288	12	1.334	6.358	41360	12	18.100	7.376



41370	17	23-932	7-313	41112	29	16-314	9-307	41514	18	6-116	11-340	41586	10	3-268	13-033	41658	9	24-450	14-266
41371	15	24-732	7-591	41113	18	16-595	9-848	41515	16	7-897	11-054	41587	15	3-764	13-068	41659	8	24-822	14-908
41372	31	24-812	7-476	41114	9	16-732	9-428	41516	10	8-066	11-544	41588	27	4-012	13-999	41660	29	25-153	14-887
41373	38	1-103	8-878	41115	14	16-814	9-423	41517	17	8-548	11-190	41589	35	4-301	13-468	41661	31	25-824	14-495
41374	11	1-347	8-052	41116	9	17-298	9-182	41518	18	9-357	11-434	41590	23	4-339	13-396	41662	41	1-320	15-775
41375	44	1-106	8-870	41117	37	17-010	9-315	41519	39	10-094	11-526	41591	10	4-530	13-562	41663	10	1-878	15-153
41376	14	1-428	8-802	41118	10	18-113	9-244	41520	25	10-309	11-452	41592	11	4-597	13-607	41664	13	3-014	15-943
41377	15	1-017	8-123	41119	11	18-118	9-453	41521	9	11-478	11-239	41593	9	5-988	13-688	41665	10	3-945	15-209
41378	22	2-096	8-742	41120	14	18-161	9-110	41522	10	11-546	11-249	41594	12	6-072	13-060	41666	10	4-734	15-552
41379	20	3-843	8-722	41121	18	20-210	9-100	41523	19	11-860	11-462	41595	37	6-417	13-705	41667	10	5-930	15-058
41380	53	3-043	8-081	41122	23	21-704	9-976	41524	25	14-052	11-885	41596	29	6-562	13-162	41668	13	8-004	15-772
41381	0	4-267	8-550	41123	13	22-126	9-020	41525	30	14-536	11-780	41597	13	7-443	13-105	41669	12	8-207	15-789
41382	14	4-800	8-148	41124	10	22-784	9-554	41526	11	17-920	11-286	41598	11	9-163	13-023	41670	12	9-214	15-716
41383	12	5-158	8-620	41125	12	22-987	9-570	41527	35	18-668	11-491	41599	18	9-447	13-630	41671	23	10-450	15-095
41384	14	5-862	8-013	41126	11	23-102	9-848	41528	21	19-122	11-366	41600	15	9-785	13-675	41672	23	10-747	15-080
41385	15	5-062	8-203	41127	17	23-521	9-131	41529	54	19-336	11-866	41601	31	10-723	13-194	41673	24	11-576	15-555
41386	9	6-098	8-350	41128	14	24-225	9-856	41530	13	21-038	11-548	41602	12	11-578	13-522	41674	19	11-627	15-338
41387	48	6-921	8-748	41129	30	24-856	9-738	41531	10	22-412	11-685	41603	9	11-765	13-052	41675	46	11-813	15-238
41388	20	6-974	8-356	41130	10	0-071	10-930	41532	13	22-990	11-182	41604	9	11-804	13-418	41676	13	12-918	15-700
41389	9	7-700	8-872	41131	40	0-331	10-756	41533	15	23-708	11-112	41605	20	11-967	13-248	41677	9	13-012	15-546
41390	40	8-690	8-538	41132	41	0-478	10-092	41534	9	24-162	11-570	41606	23	12-314	13-980	41678	12	13-582	15-743
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41392	19	10-193	8-049	41134	23	1-459	10-568	41536	13	25-634	11-554	41608	20	13-972	13-063	41680	20	14-278	15-039
41393	29	11-306	8-074	41135	25	1-623	10-536	41537	44	25-838	11-156	41609	13	13-985	13-554	41681	26	15-082	15-149
41394	45	11-850	8-910	41136	33	2-467	10-307	41538	39	0-358	12-992	41610	9	15-518	13-370	41682	17	15-183	15-047
41395	12	11-895	8-528	41137	25	2-528	10-502	41539	11	1-194	12-666	41611	13	16-741	13-864	41683	12	15-570	15-532
41396	9	12-750	8-307	41138	25	3-676	10-280	41540	13	1-575	12-440	41612	38	18-250	13-282	41684	16	16-285	15-286
41397	14	13-344	8-038	41139	18	4-134	10-530	41541	10	1-702	12-350	41613	18	18-526	13-968	41685	13	16-887	15-244
41398	14	13-540	8-350	41140	11	4-580	10-404	41542	23	2-852	12-288	41614	19	18-890	13-359	41686	12	17-402	15-147
41399	9	13-580	8-363	41141	40	5-926	10-859	41543	21	3-078	12-573	41615	65	19-460	13-672	41687	35	17-512	15-780
41400	10	13-906	8-662	41142	41	6-145	10-255	41544	17	3-113	12-426	41616	47	19-706	13-690	41688	10	17-902	15-010
41401	9	13-936	8-600	41143	12	6-630	10-674	41545	37	3-124	12-732	41617	30	20-048	13-867	41689	13	18-584	15-198
41402	23	14-295	8-410	41144	18	6-934	10-648	41546	28	3-372	12-200	41618	10	20-596	13-088	41690	10	18-803	15-132
41403	12	15-024	8-830	41145	55	7-692	10-628	41547	36	3-946	12-734	41619	10	20-831	13-860	41691	19	18-848	15-130
41404	10	15-071	8-252	41146	21	7-966	10-331	41548	9	4-123	12-430	41620	29	21-200	13-688	41692	14	19-170	15-359
41405	11	15-074	8-348	41147	9	8-043	10-399	41549	10	4-267	12-630	41621	11	22-588	13-474	41693	25	20-067	15-782
41406	18	16-879	8-758	41148	24	8-381	10-820	41550	12	5-374	12-626	41622	25	24-014	13-858	41694	18	20-097	15-658
41407	15	16-905	8-518	41149	34	8-968	10-842	41551	13	6-500	12-196	41623	32	24-800	13-523	41695	10	20-898	15-776
41408	10	17-205	8-807	41150	40	9-162	10-710	41552	32	6-667	12-710	41624	13	0-017	14-717	41696	26	22-764	15-582
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41410	10	20-108	8-983	41152	31	10-060	10-969	41554	26	7-068	12-460	41626	18	1-222	14-118	41698	34	23-208	15-240
41411	11	20-406	8-552	41153	28	11-390	10-801	41555	11	7-618	12-306	41627	29	1-583	14-155	41699	10	0-843	16-699
41412	24	20-460	8-668	41154	15	11-849	10-612	41556	9	8-287	12-742	41628	26	1-596	14-226	41700	11	1-180	16-686
41413	20	21-274	8-468	41155	19	11-942	10-042	41557	12	8-828	12-898	41629	13	2-078	14-302	41701	19	1-794	16-059
41414	22	21-280	8-414	41156	25	14-906	10-653	41558	21	10-444	12-442	41630	17	2-544	14-239	41702	15	2-036	16-462
41415	10	21-800	8-592	41157	10	15-527	10-145	41559	14	10-604	12-148	41631	13	2-734	14-392	41703	19	2-435	16-992
41416	55	23-230	8-938	41158	13	16-942	10-805	41560	17	10-948	12-690	41632	10	3-366	14-439	41704	23	3-596	16-063
41417	10	23-743	8-808	41159	10	17-510	10-802	41561	14	11-823	12-018	41633	18	3-568	14-936	41705	37	4-208	16-679
41418	21	25-471	8-546	41160	43	17-746	10-038	41562	36	11-833	12-088	41634	25	4-934	14-033	41706	10	5-040	16-104
41419	12	1-167	9-503	41161	31	17-782	10-172	41563	16	11-914	12-580	41635	14	6-380	14-790	41707	12	6-002	16-865
41420	16	1-514	9-668	41162	68	18-180	10-657	41564	47	12-949	12-118	41636	9	6-523	14-418	41708	18	6-466	16-707
41421	16	2-214	9-338	41163	18	18-236	10-034	41565	20	13-910	12-966	41637	11	7-132	14-440	41709	10	7-780	16-466
41422	16	2-287	9-976	41164	24	18-538	10-859	41566	8	15-728	12-528	41638	23	7-135	14-452	41710	31	10-271	16-057
41423	38	2-783	9-129	41165	20	18-827	10-234	41567	39	17-524	12-722	41639	35	7-279	14-880	41711	16	10-456	16-607
41424	28	3-828	9-879	41166	12	19-201	10-872	41568	13	18-160	12-154	41640	17	7-353	14-096	41712	15	10-883	16-155
41425	40	4-652	9-993	41167	12	20-520	10-978	41569	45	18-729	12-948	41641	11	8-582	14-790	41713	13	11-148	16-833
41426	16	7-561	9-192	41168	49	21-813	10-726	41570	14	18-788	12-348	41642	11	9-836	14-760	41714	14	12-418	16-688
41427	22	7-719	9-352	41169	21	22-394	10-084	41571	17	19-583	12-179	41643	15	9-901	14-134	41715	15	12-568	16-123
41428	12	7-997	9-704	41170	10	22-580	10-311	41572	9	19-667	12-192	41644	18	12-522	14-060	41716	16	13-208	16-874
41429	27	8-711	9-304	41171	10	22-621	10-210	41573	18	22-055	12-282	41645	26	13-150	14-608	41717	15	15-422	16-508
41430	12	9-834	9-657	41172	10	22-852	10-233	41574	32	23-350	12-360	41646	24	13-754	14-086	41718	15	15-422	16-200
41431	66	10-226	9-300	41173	9	23-146	10-299	41575	10	23-370	12-354	41647	10	14-049	14-726	41719	11	15-740	16-802
41432	19	10-352	9-997	41174	13	23-501													



41730	13	22.752	16.132	41802	31	9.512	18.688	41874	22	18.703	19.476	41949	21	0.547	21.094	42018	12	21.541	22.700
41731	14	23.751	16.868	41803	18	9.722	18.051	41875	16	19.108	19.094	41950	12	7.028	21.119	42019	12	25.423	22.318
41732	10	25.662	16.608	41804	15	10.006	18.442	41876	18	19.447	19.930	41951	19	7.272	21.643	42020	9	25.735	22.538
41733	9	0.298	17.777	41805	21	10.576	18.810	41877	11	20.798	19.192	41952	9	7.732	21.402	42021	10	1.131	23.195
41734	19	0.380	17.122	41806	18	10.598	18.958	41878	40	21.362	19.710	41953	11	8.277	21.472	42022	14	1.755	23.118
41735	14	0.466	17.078	41807	19	10.813	18.803	41879	33	21.505	19.870	41954	16	8.328	21.316	42023	19	1.908	23.690
41736	10	0.745	17.061	41808	25	11.166	18.424	41880	12	21.628	19.738	41955	15	9.303	21.070	42024	15	1.917	23.124
41737	10	1.707	17.660	41809	9	11.793	18.140	41881	38	22.153	19.146	41956	12	9.404	21.557	42025	8	2.126	23.039
41738	40	1.883	17.722	41810	18	12.250	18.057	41882	55	22.174	19.930	41957	10	9.725	21.548	42026	18	2.338	23.140
41739	35	2.074	17.940	41811	20	12.338	18.731	41883	41	22.598	19.120	41958	16	10.286	21.621	42027	22	2.712	23.997
41740	19	2.132	17.195	41812	25	12.376	18.417	41884	26	22.598	19.147	41959	43	11.796	21.686	42028	23	2.983	23.274
41741	17	3.004	17.092	41813	28	12.398	18.803	41885	10	22.966	19.170	41960	9	11.970	21.022	42029	35	3.368	23.946
41742	13	4.000	17.672	41814	20	13.232	18.052	41886	18	23.072	19.727	41961	11	12.304	21.030	42030	36	4.854	23.051
41743	14	4.216	17.212	41815	14	14.020	18.366	41887	8	23.084	19.405	41962	10	12.572	21.400	42031	19	5.100	23.666
41744	46	4.433	17.800	41816	36	15.186	18.926	41888	45	23.350	19.743	41963	11	12.581	21.783	42032	28	5.904	23.803
41745	21	4.722	17.021	41817	19	16.231	18.432	41889	9	23.371	19.735	41964	10	12.926	21.592	42033	16	5.944	23.310
41746	30	5.060	17.312	41818	23	16.346	18.456	41890	47	23.706	19.705	41965	13	13.784	21.418	42034	18	6.306	23.516
41747	14	5.518	17.698	41819	26	16.431	18.020	41891	38	23.733	19.431	41966	17	14.115	21.566	42035	15	7.010	23.932
41748	25	6.548	17.612	41820	16	16.648	18.650	41892	13	25.351	19.194	41967	10	15.926	21.852	42036	10	7.077	23.078
41749	10	8.326	17.751	41821	34	17.602	18.902	41893	11	1.181	20.450	41968	12	16.133	21.168	42037	10	7.126	23.810
41750	23	8.834	17.654	41822	13	18.073	18.584	41894	13	1.333	20.955	41969	9	17.365	21.380	42038	16	7.356	23.464
41751	12	9.224	17.058	41823	10	18.170	18.758	41895	14	1.768	20.590	41970	10	17.430	21.178	42039	11	7.752	23.266
41752	13	9.231	17.360	41824	10	18.296	18.658	41896	21	2.720	20.504	41971	13	19.330	21.260	42040	15	8.546	23.596
41753	15	11.157	17.788	41825	15	18.596	18.306	41897	15	3.960	20.330	41972	18	20.442	21.965	42041	15	8.906	23.446
41754	18	11.300	17.046	41826	13	18.742	18.125	41898	20	4.189	20.590	41973	13	20.453	21.350	42042	19	10.054	23.456
41755	14	12.218	17.502	41827	32	19.038	18.023	41899	17	4.414	20.013	41974	14	20.550	21.142	42043	18	10.608	23.598
41756	13	12.613	17.190	41828	32	19.273	18.392	41900	12	6.170	20.163	41975	13	20.898	21.321	42044	24	11.022	23.246
41757	9	12.662	17.088	41829	13	19.624	18.996	41901	18	6.546	20.842	41976	10	21.376	21.200	42045	17	11.628	23.182
41758	9	12.794	17.692	41830	39	20.020	18.530	41902	24	7.019	20.923	41977	10	22.298	21.028	42046	19	12.137	23.984
41759	14	13.205	17.078	41831	10	20.828	18.756	41903	17	7.056	20.364	41978	10	23.212	21.032	42047	39	12.343	23.800
41760	12	13.547	17.423	41832	23	22.318	18.785	41904	12	7.498	20.424	41979	14	24.730	21.900	42048	12	12.580	23.100
41761	9	14.266	17.377	41833	12	22.447	18.608	41905	11	7.920	20.212	41980	11	25.158	21.987	42049	28	12.847	23.548
41762	11	14.277	17.050	41834	18	22.912	18.216	41906	10	10.342	20.398	41981	41	25.995	21.742	42050	11	13.584	23.405
41763	47	14.346	17.112	41835	30	24.289	18.592	41907	9	10.514	20.350	41982	20	0.223	22.360	42051	20	13.698	23.408
41764	12	16.304	17.654	41836	20	24.744	18.475	41908	19	10.608	20.503	41983	24	0.277	22.594	42052	12	14.134	23.570
41765	20	16.753	17.035	41837	26	25.046	18.928	41909	19	10.742	20.648	41984	10	0.952	22.300	42053	14	14.608	23.171
41766	13	16.846	17.272	41838	59	0.808	19.519	41910	22	10.941	20.536	41985	15	2.576	22.124	42054	32	14.748	23.908
41767	9	17.038	17.348	41839	51	1.365	19.124	41911	31	10.972	20.312	41986	12	3.068	22.423	42055	49	14.890	23.976
41768	10	17.112	17.027	41840	21	1.622	19.386	41912	12	11.650	20.658	41987	38	3.248	22.284	42056	30	14.978	23.207
41769	17	17.136	17.745	41841	18	1.826	19.078	41913	11	11.670	20.596	41988	12	4.590	22.428	42057	14	15.278	23.957
41770	14	17.660	17.550	41842	32	2.490	19.625	41914	10	12.603	20.858	41989	10	5.552	22.996	42058	17	15.809	23.332
41771	24	17.870	17.276	41843	19	2.552	19.750	41915	37	12.640	20.678	41990	14	5.998	22.783	42059	27	16.509	23.963
41772	36	17.883	17.015	41844	25	3.084	19.642	41916	10	13.260	20.086	41991	28	6.918	22.570	42060	14	16.847	23.862
41773	13	17.888	17.400	41845	9	3.211	19.470	41917	14	13.544	20.954	41992	27	7.911	22.310	42061	9	17.348	23.127
41774	19	18.443	17.682	41846	22	3.250	19.240	41918	24	14.568	20.879	41993	21	8.068	22.522	42062	13	17.582	23.060
41775	14	18.496	17.378	41847	28	3.396	19.985	41919	9	14.860	20.804	41994	19	8.543	22.423	42063	14	18.246	23.888
41776	10	18.683	17.766	41848	10	3.804	19.793	41920	21	15.938	20.680	41995	10	9.123	22.892	42064	10	18.408	23.355
41777	13	18.730	17.900	41849	12	4.590	19.638	41921	41	15.976	20.559	41996	29	10.236	22.204	42065	18	18.616	23.232
41778	16	18.847	17.147	41850	10	5.132	19.737	41922	11	16.164	20.063	41997	10	10.976	22.933	42066	13	18.948	23.388
41779	16	19.038	17.006	41851	21	5.308	19.092	41923	31	16.309	20.074	41998	12	11.064	22.889	42067	9	19.483	23.270
41780	10	19.496	17.046	41852	24	5.414	19.689	41924	33	16.402	20.071	41999	14	12.004	22.759	42068	32	19.704	23.271
41781	21	19.519	17.815	41853	10	6.252	19.910	41925	78	16.949	20.482	42000	16	13.440	22.034	42069	61	20.140	23.034
41782	32	20.040	17.894	41854	10	6.666	19.480	41926	17	16.975	20.250	42001	9	14.878	22.440	42070	9	21.128	23.200
41783	8	21.270	17.626	41855	14	8.574	19.204	41927	30	17.444	20.383	42002	19	15.260	22.842	42071	11	22.138	23.703
41784	38	21.297	17.594	41856	14	8.893	19.260	41928	16	18.454	20.326	42003	21	16.380	22.277	42072	11	22.424	23.539
41785	25	22.396	17.533	41857	14	8.969	19.241	41929	27	20.262	20.338	42004	10	16.707	22.536	42073	37	23.130	23.692
41786	11	22.514	17.928	41858	15	9.060	19.367	41930	19	20.386	20.398	42005	14	16.708	22.332	42074	11	0.176	24.376
41787	38	22.625	17.890	41859	23	9.878	19.264	41931	10	21.223	20.770	42006	32	18.042	22.438	42075	38	0.528	24.910
41788	15	23.237	17.569	41860	13	9.918	19.248	41932	25	21.423	20.200	42007	13	18.113	22.487	42076	11	0.986	24.764
41789	10	23.964	17.052	41861	9	10.100	19.798	41933	12	21.999	20.086	42008	23	18.248	22.539	42077	24	1.298	24.908
41790	32	24.430	17.468	41862	28	10.524	19.768	41934	39	23.475	20.096	42009	10	18.520	22.678	42078	56	1.424	24.183
41791	14	0.530	18.429	41863	29	11.167	19.458	41935	9	25.843	20.176	42010	14	18.843	22.667	420			







42422	10	19.110	8.428	42404	30	4.877	11.858	42566	17	5.201	13.961	42638	10	5.159	15.276	42710	30	2.186	17.748
42423	23	19.268	8.374	42495	13	5.956	11.734	42567	13	5.874	13.220	42639	14	5.616	15.040	42711	12	4.160	17.574
42424	28	19.820	8.018	42496	12	6.275	11.556	42568	14	6.424	13.610	42640	28	5.724	15.250	42712	18	5.318	17.670
42425	14	20.904	8.684	42497	10	6.344	11.602	42569	10	7.216	13.853	42641	13	5.626	15.610	42713	25	6.258	17.560
42426	37	21.879	8.376	42498	18	6.435	11.636	42570	12	7.252	13.462	42642	18	6.342	15.304	42714	32	7.694	17.224
42427	11	22.196	8.572	42499	35	7.000	11.400	42571	15	7.614	13.556	42643	21	6.403	15.654	42715	33	8.264	17.320
42428	14	23.540	8.390	42500	35	7.932	11.452	42572	19	8.135	13.083	42644	12	7.076	15.500	42716	25	8.264	17.648
42429	21	23.919	8.014	42501	25	8.100	11.865	42573	10	8.319	13.084	42645	10	12.104	15.760	42717	23	8.340	17.692
42430	11	25.076	8.116	42502	23	9.883	11.920	42574	38	9.837	13.850	42646	10	12.275	15.410	42718	29	8.464	17.124
42431	10	0.818	9.548	42503	28	10.591	11.150	42575	16	9.995	13.140	42647	14	12.835	15.183	42719	31	9.762	17.910
42432	10	0.832	9.836	42504	24	11.525	11.087	42576	23	10.634	13.924	42648	10	13.564	15.686	42720	10	12.356	17.147
42433	13	1.034	9.852	42505	34	11.686	11.304	42577	12	10.737	13.514	42649	10	14.753	15.716	42721	22	13.195	17.548
42434	46	1.270	9.218	42506	26	11.689	11.322	42578	11	11.074	13.702	42650	31	14.642	15.962	42722	10	13.102	17.732
42435	21	1.568	9.416	42507	34	12.329	11.586	42579	46	11.366	13.088	42651	24	15.623	15.304	42723	12	13.650	17.026
42436	12	4.764	9.326	42508	46	13.086	11.972	42580	19	11.682	13.036	42652	33	17.002	15.010	42724	22	14.140	17.364
42437	17	5.764	9.792	42509	11	14.239	11.346	42581	12	12.196	13.242	42653	47	18.743	15.173	42725	17	15.762	17.686
42438	18	6.010	9.349	42510	11	15.330	11.046	42582	13	12.550	13.472	42654	24	19.531	15.260	42726	22	17.884	17.840
42439	17	7.606	9.425	42511	30	17.004	11.954	42583	12	12.910	13.306	42655	12	19.702	15.260	42727	19	18.848	17.543
42440	15	8.635	9.524	42512	27	17.524	11.840	42584	14	12.952	13.373	42656	24	20.650	15.685	42728	16	20.579	17.480
42441	22	8.735	9.381	42513	19	19.386	11.608	42585	10	13.463	13.586	42657	22	20.668	15.305	42729	11	20.910	17.440
42442	21	8.864	9.195	42514	21	19.702	11.648	42586	13	13.938	13.546	42658	25	21.234	15.606	42730	15	21.448	17.720
42443	12	10.776	9.975	42515	25	20.753	11.717	42587	14	15.289	13.127	42659	34	22.302	15.142	42731	10	22.647	17.498
42444	10	10.868	9.134	42516	11	21.343	11.900	42588	35	16.460	13.734	42660	12	22.618	15.820	42732	35	23.554	17.700
42445	26	11.500	9.462	42517	24	22.526	11.414	42589	20	18.554	13.564	42661	11	22.768	15.389	42733	10	25.424	17.410
42446	20	12.132	9.926	42518	30	24.090	11.268	42590	26	18.788	13.349	42662	37	23.150	15.617	42734	23	25.554	17.476
42447	32	16.019	9.932	42519	23	25.137	11.019	42591	26	18.804	13.724	42663	45	23.410	15.991	42735	32	26.680	18.172
42448	13	16.270	9.916	42520	16	25.804	11.362	42592	39	19.216	13.330	42664	10	23.731	15.367	42736	18	26.970	18.500
42449	33	17.006	9.308	42521	18	0.106	12.565	42593	14	19.277	13.626	42665	10	24.788	15.175	42737	29	2.346	18.843
42450	10	17.298	9.534	42522	34	1.400	12.641	42594	29	20.392	13.174	42666	10	25.388	15.585	42738	25	2.802	18.754
42451	22	18.930	9.392	42523	15	1.730	12.434	42595	14	20.468	13.346	42667	27	0.636	16.804	42739	29	5.536	18.546
42452	12	20.276	9.954	42524	33	2.164	12.426	42596	10	20.810	13.378	42668	10	0.809	16.414	42740	15	7.756	18.006
42453	44	21.242	9.678	42525	10	2.962	12.890	42597	24	23.880	13.734	42669	16	3.718	16.886	42741	12	8.241	18.356
42454	19	22.979	9.426	42526	20	2.966	12.364	42598	33	24.413	13.486	42670	13	6.067	16.664	42742	20	8.318	18.483
42455	34	24.207	9.542	42527	28	3.041	12.330	42599	16	24.420	13.284	42671	10	7.156	16.601	42743	17	9.266	18.248
42456	13	0.174	10.202	42528	10	3.549	12.880	42600	11	25.113	13.272	42672	22	7.362	16.376	42744	12	11.721	18.206
42457	21	0.443	10.368	42529	14	4.124	12.644	42601	10	0.268	14.962	42673	24	8.146	16.598	42745	13	13.356	18.788
42458	15	2.274	10.136	42530	20	4.474	12.569	42602	27	2.065	14.140	42674	24	8.272	16.872	42746	28	15.441	18.994
42459	12	2.774	10.431	42531	14	5.104	12.368	42603	30	3.875	14.774	42675	10	8.406	16.859	42747	34	16.370	18.464
42460	29	2.902	10.018	42532	22	5.632	12.666	42604	11	4.251	14.172	42676	20	8.550	16.459	42748	24	17.790	18.054
42461	19	4.054	10.296	42533	13	5.956	12.226	42605	20	4.266	14.792	42677	12	8.636	16.742	42749	33	18.655	18.411
42462	15	5.268	10.524	42534	10	7.271	12.982	42606	43	4.762	14.614	42678	27	8.748	16.246	42750	14	19.076	18.396
42463	16	6.032	10.054	42535	37	7.415	12.802	42607	16	4.893	14.271	42679	18	9.141	16.048	42751	12	19.505	18.366
42464	16	7.484	10.949	42536	23	9.384	12.432	42608	27	5.787	14.366	42680	22	9.160	16.044	42752	37	20.205	18.089
42465	24	7.678	10.800	42537	28	9.776	12.464	42609	21	5.984	14.566	42681	28	9.373	16.620	42753	21	21.100	18.384
42466	12	10.536	10.090	42538	18	9.827	12.661	42610	20	6.020	14.335	42682	22	10.158	16.162	42754	10	21.212	18.778
42467	18	10.565	10.668	42539	20	10.304	12.218	42611	32	7.459	14.586	42683	32	10.342	16.820	42755	21	22.650	18.670
42468	36	10.725	10.194	42540	30	10.396	12.770	42612	10	7.622	14.526	42684	13	10.952	16.668	42756	28	23.184	18.208
42469	14	11.370	10.966	42541	25	10.645	12.593	42613	10	8.266	14.235	42685	11	14.140	16.082	42757	35	0.210	19.429
42470	19	11.903	10.306	42542	21	10.928	12.105	42614	27	9.526	14.452	42686	25	14.780	16.332	42758	23	0.376	19.066
42471	11	12.247	10.486	42543	25	11.091	12.143	42615	31	10.753	14.187	42687	19	16.866	16.225	42759	35	0.454	19.384
42472	21	14.180	10.194	42544	13	12.370	12.040	42616	17	11.216	14.358	42688	24	16.978	16.356	42760	24	0.656	19.430
42473	30	15.100	10.510	42545	28	12.554	12.447	42617	10	11.673	14.428	42689	12	17.082	16.782	42761	35	1.015	19.980
42474	26	15.600	10.070	42546	10	12.708	12.144	42618	20	12.132	14.648	42690	18	17.175	16.822	42762	10	1.028	19.460
42475	24	15.920	10.736	42547	17	13.781	12.540	42619	28	12.226	14.243	42691	11	17.223	16.590	42763	33	1.791	19.713
42476	22	17.118	10.816	42548	17	13.824	12.416	42620	28	13.066	14.555	42692	12	17.604	16.211	42764	26	3.105	19.208
42477	21	19.464	10.492	42549	13	14.126	12.669	42621	18	18.568	14.070	42693	20	18.038	16.250	42765	27	4.433	19.089
42478	21	19.580	10.690	42550	32	14.334	12.336	42622	31	19.020	14.816	42694	32	18.310	16.500	42766	11	5.304	19.022
42479	23	19.750	10.808	42551	11	14.966	12.526	42623	10	19.716	14.324	42695	14	18.635	16.471	42767	22	5.852	19.458
42480	20	21.894	10.748	42552	18	15.712	12.148	42624	35	22.730	14.432	42696	18	18.927	16.982	42768	17	6.495	19.284
42481	13	22.200	10.156	42553	22	16.155	12.564	42625	13	23.314	14.790	42697	22	19.360	16.766	42769	35	6.798	19.691
42482	13	23.105	10.754	42554	22	16.279	12.160	42626	14	23.662	14.870	42698	13	20.668	16.341	42770	28	6.954	19.036
42483	20	23.292	10.994	42555	37	17.786	12.432	42627	10	23.668	14.849	42699	38	22.600	16.102	42771	26	8.236	19.986</







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43184	10	0-176	8-368	43256	21	23-738	10-799	43328	12	4-060	13-974	43400	13	17-230	15-273	43472	19	25-321	17-036
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43186	23	4-119	8-312	43258	20	0-560	11-202	43330	15	4-780	13-168	43402	19	21-270	15-704	43474	15	4-530	18-710
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43515	24	7.774	19.814	43587*	45	5.142	22.964	43659	18	18.260	25.492	43744	20	25.874	1.881	43816	30	5.586	5.448
43516	27	8.510	19.575	43588	26	5.339	22.144	43660	33	18.965	25.155	43745*	60	1.380	2.475	43817	12	6.780	5.631
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43518	24	11.501	19.752	43590	11	5.930	22.642	43662	11	20.250	25.310	43747	34	6.435	2.022	43819	21	10.630	5.554
43519	19	12.500	19.706	43591	23	6.206	22.016	43663	14	23.421	25.270	43748	22	7.060	2.910	43820	11	11.314	5.759
43520	22	13.040	19.004	43592	24	6.384	22.936					43749	11	7.618	2.266	43821	20	12.444	5.528
43521	10	13.417	19.146	43593	16	6.570	22.375					43750	11	8.745	2.888	43822	23	12.885	5.814
43522	13	14.206	19.592	43594	12	6.614	22.900					43751	13	10.554	2.874	43823	18	12.906	5.787
43523	13	15.844	19.874	43595	38	6.826	22.832					43752	15	10.706	2.245	43824	16	13.824	5.780
43524	26	16.473	19.640	43596	25	9.420	22.687					43753	37	11.340	2.400	43825	12	14.080	5.893
43525	16	17.360	19.228	43597	12	9.530	22.232					43754	10	11.400	2.150	43826	20	15.090	5.437
43526*	40	17.446	19.150	43598	18	10.113	22.565					43755	44	12.789	2.730	43827	17	15.988	5.514
43527	13	17.500	19.094	43599	14	10.722	22.221					43756	26	13.178	2.446	43828	22	17.266	5.555
43528	10	19.070	19.456	43600*	47	11.821	22.944					43757	38	13.327	2.640	43829	34	17.775	5.485
43529	23	19.209	19.904		12	12.946	22.727					43758	20	14.092	2.589	43830	13	19.320	5.152
43530	28	19.872	19.744		10	14.639	22.966					43759	16	16.224	2.995	43831	12	19.889	5.581
43531	14	21.320	19.780	43603	10	15.162	22.848					43760	12	16.506	2.389	43832	13	20.078	5.896
43532	35	22.388	19.586	43604	30	15.288	22.310					43761	20	16.531	2.202	43833	33	21.462	5.220
43533	19	24.300	19.556	43605	13	15.851	22.769					43762	19	16.565	2.166	43834*	60	21.712	5.356
43534	12	1.026	20.779	43606	8	18.772	22.638					43763	17	17.575	2.462	43835	36	22.030	5.106
43535	30	1.742	20.995	43607	20	18.910	22.780					43764	12	18.880	2.530	43836	20	22.340	5.860
43536	23	2.950	20.957	43608	11	18.944	22.949					43765	14	18.900	2.960	43837	29	22.426	5.140
43537	17	3.650	20.353	43609*	46	19.002	22.885					43766*	40	19.310	2.302	43838	12	23.564	5.682
43538	14	3.774	20.152	43610	11	19.024	22.510					43767	17	19.460	2.090	43839	38	23.799	5.645
43539	13	7.789	20.980	43611	11	21.795	22.320					43768	12	19.848	2.606	43840	10	5.730	6.243
43540	42	8.065	20.628	43612*	49	22.468	22.778					43769	20	20.724	2.758	43841	29	11.075	6.562
43541	12	8.862	20.647	43613	16	23.694	22.420					43770	19	23.318	2.848	43842*	55	11.214	6.228
43542	8	8.921	20.464	43614	24	24.426	22.499					43771	17	23.598	2.661	43843	22	11.332	6.099
43543	26	9.306	20.060	43615	16	24.900	22.995					43772	14	25.512	2.596	43844*	46	11.501	6.183
43544	24	11.154	20.733	43616	26	0.192	23.764					43773	16	25.757	2.293	43845	25	13.198	6.276
43545	20	12.190	20.363	43617	21	2.840	23.202					43774	24	1.338	3.840	43846	14	13.320	6.380
43546	10	15.854	20.883	43618*	63	2.913	23.475					43775	19	6.734	3.685	43847	31	14.950	6.345
43547	32	16.820	20.186	43619	11	5.479	23.534					43776	13	7.853	3.088	43848	15	16.024	6.404
43548	10	17.190	20.485	43620	17	5.488	23.286					43777	24	8.076	3.555	43849	31	17.296	6.170
43549	34	18.203	20.320	43621	35	7.474	23.989					43778	13	9.312	3.555	43850	21	18.680	6.502
43550	28	18.285	20.308	43622	15	8.202	23.956					43779	24	14.160	3.690	43851	16	18.725	6.222
43551	31	21.197	20.735	43623	29	9.470	23.484					43780	18	14.914	3.944	43852	40	20.090	6.482
43552	27	22.262	20.730	43624	19	10.110	23.022					43781	19	15.027	3.004	43853	30	21.435	6.284
43553	15	22.490	20.760	43625	14	10.530	23.287					43782	13	15.916	3.272	43854	32	21.994	6.482
43554	28	23.359	20.417	43626	15	10.824	23.906					43783	21	17.417	3.294	43855	20	23.794	6.058
43555	28	25.704	20.999	43627	13	13.190	23.502					43784	40	18.450	3.186	43856	13	23.994	6.474
43556	24	25.906	20.048	43628	21	14.836	23.444					43785	28	18.526	3.526	43857	29	2.298	7.366
43557	22	0.165	21.122	43629	25	15.296	23.334					43786	12	19.294	3.360	43858	12	2.636	7.954
43558	10	0.719	21.280	43630	20	17.997	23.629					43787	19	20.899	3.388	43859	33	4.130	7.058
43559	22	1.777	21.148	43631	17	18.971	23.549					43788	29	23.608	3.555	43860*	56	5.298	7.791

**R.A. 8<sup>h</sup> 52<sup>m</sup>**  
 Plate 1575; 1920 Feb. 14.  
*Provisional Constants.*  
 A B C  
 —.01750 +.01157 —.1632  
 D E F  
 —.01173 —.01760 —.3776  
*Mag.* = 16.6 — 1.05√d

No.	d	ε	η
43701	12	1.582	0.616
43702	36	2.576	0.260
43703	26	5.344	0.042
43704	23	5.349	0.806
43705	32	5.896	0.080
43706	11	6.453	0.340
43707	15	7.467	0.184
43708	12	8.870	0.172
43709	17	10.481	0.834
43710	16	10.784	0.758
43711	20	11.288	0.694
43712	14	11.394	0.535
43713	29	12.985	0.264
43714	53	13.440	0.585
43715	14	13.694	0.658
43716	38	14.330	0.255







44221	25	11.150	22.691	44356	17	13.728	3.258	44428	37	7.114	7.509	44500	21	20.482	10.674
44222	20	12.371	22.508	44357	33	15.686	3.132	44429	12	7.284	7.500	44501	28	20.918	10.918
44223	13	12.730	22.807	44358	15	17.296	3.224	44430	39	9.204	7.830	44502	16	22.974	10.118
44224	14	13.828	22.111	44359	28	18.834	3.074	44431	11	9.601	7.318	44503	14	23.106	10.728
44225	11	17.763	22.001	44360	38	19.552	3.286	44432	11	9.653	7.886	44504	57	23.542	10.634
44226	13	17.056	22.211	44361	33	22.622	3.994	44433	16	12.358	7.406	44505	18	1.667	11.948
44227	20	18.161	22.540	44362	26	23.018	3.633	44434	28	14.452	7.444	44506	19	3.094	11.196
44228	25	18.220	22.718	44363	12	24.006	3.094	44435	15	15.450	7.424	44507	12	4.748	11.308
44229	24	18.870	22.253	44364	18	24.454	3.103	44436	22	17.694	7.157	44508	57	6.723	11.588
44230	15	18.048	22.341	44365	12	0.706	4.802	44437	29	19.886	7.558	44509	26	11.582	11.006
44231	51	1.480	23.125	44366	57	0.828	4.891	44438	20	21.000	7.524	44510	19	11.762	11.074
44232	48	3.188	23.144	44367	12	2.456	4.328	44439	22	22.789	7.877	44511	15	13.928	11.512
44233	19	7.803	23.014	44368	14	3.794	4.716	44440	21	23.606	7.248	44512	15	14.942	11.256
44234	42	8.370	23.788	44369	38	4.396	4.055	44441	15	8.914	8.941	44513	12	15.723	11.752
44235	16	8.389	23.355	44370	14	4.760	4.608	44442	12	9.110	8.732	44514	19	17.697	11.520
44236	12	10.922	23.304	44371	18	4.884	4.164	44443	16	9.322	8.566	44515	16	18.793	11.405
44237	27	11.282	23.052	44372	38	5.994	4.412	44444	55	9.976	8.304	44516	17	21.160	11.834
44238	20	12.321	23.172	44373	17	8.555	4.704	44445	19	10.476	8.372	44517	42	21.333	11.481
44239	15	12.672	23.780	44374	13	9.028	4.436	44446	15	11.194	8.604	44518	36	23.730	11.744
44240	10	14.320	23.722	44375	19	11.084	4.471	44447	11	11.922	8.299	44519	38	3.232	12.848
44241	16	15.470	23.248	44376	17	11.348	4.008	44448	17	12.464	8.461	44520	31	7.038	12.266
44242	16	17.200	23.725	44377	24	11.900	4.404	44449	28	13.270	8.624	44521	13	7.324	12.938
44243	14	19.858	23.045	44378	14	12.116	4.254	44450	62	13.563	8.053	44522	30	7.556	12.218
44244	27	20.730	23.400	44379	14	13.364	4.864	44451	15	17.528	8.507	44523	18	8.814	12.810
44245	17	23.480	23.444	44380	26	14.462	4.995	44452	37	17.994	8.226	44524	17	8.830	12.906
44246	12	23.786	23.322	44381	38	16.167	4.495	44453	31	18.595	8.534	44525	11	9.758	12.112
44247	17	24.340	23.805	44382	13	18.613	4.606	44454	17	20.366	8.426	44526	12	10.390	12.635
44248	15	24.786	23.391	44383	21	20.898	4.566	44455	22	20.822	8.086	44527	12	12.424	12.574
44249	28	1.765	24.296	44384	11	22.600	4.892	44456	12	21.040	8.092	44528	17	13.249	12.356
44250	19	4.057	24.800	44385	11	23.506	4.451	44457	15	21.142	8.264	44529	42	13.455	12.411
44251	10	6.070	24.776	44386	10	25.682	4.960	44458	16	22.475	8.074	44530	13	13.806	12.046
44252	12	8.074	24.047	44387	37	0.315	5.554	44459	37	23.206	8.001	44531	38	14.524	12.018
44253	44	8.628	24.542	44388	38	5.636	5.356	44460	13	23.936	8.956	44532	20	14.990	12.636
44254	19	12.498	24.514	44389	18	6.676	5.282	44461	23	24.642	8.832	44533	12	15.396	12.634
44255	14	13.847	24.012	44390	13	7.270	5.454	44462	27	24.738	8.435	44534	33	17.594	12.850
44256	36	13.985	24.236	44391	14	8.176	5.159	44463	13	25.488	8.894	44535	11	18.214	12.635
44257	10	17.944	24.692	44392	18	8.187	5.342	44464	19	25.556	8.266	44536	12	18.854	12.144
44258	15	18.584	24.744	44393	23	8.686	5.421	44465	12	1.198	9.586	44537	17	19.346	12.626
44259	33	20.120	24.240	44394	37	9.838	5.002	44466	18	7.088	9.550	44538	16	20.384	12.566
44260	17	20.130	24.822	44395	16	14.180	5.618	44467	31	7.093	9.168	44539	25	22.786	12.227
44261	14	21.269	24.350	44396	11	14.383	5.938	44468	23	7.798	9.514	44540	39	24.848	12.464
44262	14	21.798	24.255	44397	31	15.910	5.396	44469	16	8.016	9.526	44541	21	25.506	12.322
44263	19	23.986	24.170	44398	16	16.540	5.452	44470	21	8.770	9.537	44542	37	0.286	13.522
44264	14	1.565	25.298	44399	33	17.836	5.938	44471	18	10.612	9.546	44543	39	2.544	13.576
44265	36	4.904	25.242	44400	24	19.950	5.776	44472	12	10.750	9.047	44544	18	5.280	13.948
44266	46	6.328	25.481	44401	16	23.534	5.094	44473	14	11.136	9.564	44545	11	5.760	13.214
44267	28	6.928	25.428	44402	17	25.474	5.478	44474	14	11.174	9.486	44546	32	6.598	13.194
44268	26	6.935	25.228	44403	16	25.766	5.560	44475	31	13.086	9.516	44547	48	7.044	13.986
44269	15	7.410	25.895	44404	16	0.236	6.274	44476	37	13.860	9.800	44548	37	7.324	13.708
44270	18	10.723	25.098	44405	38	1.690	6.050	44477	38	13.914	9.664	44549	12	9.404	13.305
44271	12	10.955	25.051	44406	13	1.692	6.464	44478	57	14.090	9.256	44550	14	9.842	13.124
44272	34	11.218	25.228	44407	14	5.139	6.416	44479	16	14.324	9.185	44551	36	10.276	13.554
44273	28	13.141	25.928	44408	11	7.603	6.926	44480	33	17.378	9.744	44552	38	11.973	13.080
44274	61	13.936	25.190	44409	15	7.954	6.266	44481	25	19.312	9.916	44553	27	13.200	13.512
44275	34	13.982	25.156	44410	18	8.056	6.654	44482	15	20.246	9.684	44554	14	15.136	13.138
44276	12	14.240	25.003	44411	31	10.249	6.900	44483	14	20.385	9.488	44555	14	15.235	13.360
44277	11	15.546	25.178	44412	10	11.516	6.755	44484	24	21.174	9.968	44556	20	15.337	13.277
44278	18	17.870	25.571	44413	17	13.266	6.948	44485	17	21.777	9.448	44557	12	17.310	13.752
44279	14	17.898	25.972	44414	32	14.024	6.876	44486	32	1.084	10.099	44558	57	17.901	13.510
44280	14	18.830	25.812	44415	13	14.809	6.830								



11572	18	0-131	1-087	11-44	13	18-305	17-11	11-71	12	0-995	21-705	11573	27	8-772	14-210	11-45	27	10-218	17-108	11-71	28	11-299	21-034	11574	48	8-930	14-584	11-46	15	21-077	17-085	11-71	20	15-166	21-280	11575	17	9-754	14-534	11-47	16	22-169	17-325	11-71	19	15-302	21-805	11576	38	9-974	14-282	11-48	22	22-562	17-422	11-72	24	16-225	21-351	11577	14	10-384	14-131	11-49	17	2-152	18-305	11-72	24	17-307	21-344	11578	15	10-975	14-234	11-50	10	2-614	18-174	11-72	18	17-211	21-503	11579	17	11-410	14-216	11-51	38	0-015	18-332	11-73	24	19-523	21-802	11580	19	11-730	14-045	11-52	15	7-334	18-230	11-74	13	20-156	21-306	11581	44	12-004	14-576	11-53	17	8-096	18-086	11-75	21	21-304	21-111	11582	20	13-200	14-980	11-54	20	9-764	18-178	11-76	21	22-265	21-180	11583	14	14-910	14-828	11-55	10	9-800	18-228	11-77	25	24-138	21-166	11584	21	15-174	14-006	11-56	14	9-953	18-222	11-78	21	2-826	22-318	11585	12	15-339	14-449	11-57	17	10-216	18-536	11-79	22	3-596	22-154	11586	59	16-714	14-012	11-58	14	11-582	18-635	11-80	27	6-998	22-352	11587	16	17-490	14-461	11-59	23	14-578	18-008	11-81	18	8-934	22-376	11588	13	17-743	14-166	11-60	13	16-346	18-866	11-82	15	11-044	22-442	11589	24	18-512	14-800	11-61	14	16-917	18-104	11-83	14	13-237	22-087	11590	13	20-325	14-522	11-62	14	18-022	18-105	11-84	16	15-794	22-175	11591	17	22-316	14-538	11-63	39	18-488	18-476	11-85	30	18-950	22-526	11592	19	23-304	14-258	11-64	27	21-705	18-521	11-86	17	20-010	22-147	11593	12	24-156	14-30	11-65	12	22-518	18-240	11-87	16	22-031	22-400	11594	13	24-524	14-570	11-66	22	22-015	18-023	11-88	30	23-046	22-334	11595	23	24-500	14-550	11-67	34	23-532	18-045	11-89	17	1-104	23-854	11596	17	24-076	14-108	11-68	24	2-431	19-040	11-90	14	1-800	23-720	11597	15	25-055	14-486	11-69	51	3-333	19-004	11-91	17	2-802	23-702	11598	38	0-414	15-376	11-70	12	3-344	19-794	11-92	15	7-050	23-370	11599	20	1-868	15-700	11-71	11	5-513	19-010	11-93	14	8-488	23-744	11600	21	3-681	15-026	11-72	25	5-021	19-104	11-94	20	9-581	23-482	11601	12	6-356	15-676	11-73	20	6-714	19-766	11-95	15	11-054	23-114	11602	18	7-020	15-930	11-74	39	6-980	19-242	11-96	52	18-164	23-074	11603	16	8-214	15-824	11-75	16	8-070	19-675	11-97	17	18-056	23-856	11604	14	8-496	15-014	11-76	15	8-580	19-658	11-98	30	18-728	23-444	11605	10	11-864	15-810	11-77	12	9-334	19-116	11-99	18	20-830	23-906	11606	18	12-042	15-166	11-78	42	12-034	19-448	11607	26	13-270	15-398	11-79	14	12-572	19-352	11608	11	13-676	15-085	11-80	39	13-519	19-094	11609	11	14-008	15-916	11-81	10	15-136	19-416	11610	21	15-636	15-580	11-82	19	17-810	19-805	11611	14	15-060	15-048	11-83	34	18-288	19-354	11612	19	16-700	15-328	11-84	37	18-849	19-055	11613	27	16-995	15-846	11-85	11	19-236	19-254	11614	16	22-726	15-182	11-86	20	19-550	19-634	11615	17	24-364	15-485	11-87	15	19-850	19-026	11616	18	25-744	15-104	11-88	20	21-015	19-670	11617	20	1-589	16-282	11-89	24	21-860	19-034	11618	13	1-822	16-434	11-90	17	21-950	19-334	11619	28	2-268	16-002	11-91	32	23-040	19-526	11620	14	4-446	16-778	11-92	55	24-312	19-267	11621	12	5-687	16-895	11-93	17	25-623	19-586	11622	30	6-342	16-634	11-94	37	0-761	20-648	11623	13	6-420	16-860	11-95	20	3-734	20-345	11624	16	8-084	16-758	11-96	17	4-242	20-164	11625	15	10-682	16-856	11-97	46	4-320	20-602	11626	26	11-985	16-916	11-98	21	6-784	20-641	11627	31	12-158	16-380	11-99	23	7-662	20-976	11628	21	12-786	16-776	11629	18	14-372	16-144	11630	12	18-056	16-509	11631	14	18-455	16-614	11632	12	18-846	16-609	11633	24	19-828	16-005	11634	37	23-802	16-130	11635	37	25-324	16-934	11636	22	5-138	17-128	11637	20	5-784	17-302	11638	28	6-334	17-378	11639	15	10-056	17-972	11640	16	13-916	17-925	11641	17	14-204	17-600	11642	19	17-436	17-909	11643	17	18-260	17-562	11644	13	18-305	17-11	11645	27	10-218	17-108	11646	15	21-077	17-085	11647	16	22-169	17-325	11648	22	22-562	17-422	11649	17	2-152	18-305	11650	10	2-614	18-174	11651	38	0-015	18-332	11652	15	7-334	18-230	11653	17	8-096	18-086	11654	20	9-764	18-178	11655	10	9-800	18-228	11656	14	9-953	18-222	11657	17	10-216	18-536	11658	14	11-582	18-635	11659	23	14-578	18-008	11660	13	16-346	18-866	11661	14	16-917	18-104	11662	14	18-022	18-105	11663	39	18-488	18-476	11664	27	21-705	18-521	11665	12	22-518	18-240	11666	22	22-015	18-023	11667	34	23-532	18-045	11668	51	3-333	19-004	11669	12	3-344	19-794	11670	11	5-513	19-010	11671	25	5-021	19-104	11672	20	6-714	19-766	11673	39	6-980	19-242	11674	16	8-070	19-675	11675	15	8-580	19-658	11676	12	9-334	19-116	11677	42	12-034	19-448	11678	14	12-572	19-352	11679	39	13-519	19-094	11680	10	15-136	19-416	11681	19	17-810	19-805	11682	34	18-288	19-354	11683	37	18-849	19-055	11684	11	19-236	19-254	11685	20	19-550	19-634	11686	15	19-850	19-026	11687	20	21-015	19-670	11688	24	21-860	19-034	11689	17	21-950	19-334	11690	32	23-040	19-526	11691	55	24-312	19-267	11692	17	25-623	19-586	11693	37	0-761	20-648	11694	20	3-734	20-345	11695	17	4-242	20-164	11696	46	4-320	20-602	11697	21	6-784	20-641	11698	23	7-662	20-976	11699	13	8-914	20-208	11700	24	10-156	20-066	11701	15	11-294	20-044	11702	25	11-442	20-560	11703	27	12-825	20-801	11704	42	14-040	20-056	11705	11	15-850	20-349	11706	13	16-401	20-308	11707	18	17-212	20-308	11708	15	19-626	20-086	11709	18	19-786	20-866	11710	28	22-612	20-286	11711	50	22-630	20-244	11712	38	24-196	20-614	11713	19	24-356	20-534	11714	12	2-564	21-194	11715	12	2-564	21-194	11716	12	0-995	21-705	11717	28	11-299	21-034	11718	20	15-166	21-280	11719	19	15-302	21-805	11720	24	16-225	21-351	11721	24	17-307	21-344	11722	18	17-211	21-503	11723	24	19-523	21-802	11724	13	20-156	21-306	11725	21	21-304	21-111	11726	21	22-265	21-180	11727	25	24-138	21-166	11728	21	2-826	22-318	11729	22	3-596	22-154	11730	27	6-998	22-352	11731	18	8-934	22-376	11732	15	11-044	22-442	11733	14	13-237	22-087	11734	16	15-794	22-175	11735	30	18-950	22-526	11736	17	20-010	22-147	11737	16	22-031	22-400	11738	30	23-046	22-334	11739	17	1-104	23-854	11740	14	1-800	23-720	11741	17	2-802	23-702	11742	15	7-050	23-370	11743	14	8-488	23-744	11744	20	9-581	23-482	11745	15	11-054	23-114	11746	52	18-164	23-074	11747	47	18-056	23-856	11748	30	18-728	23-444	11749	18	20-830	23-906	11750	15	21-245	23-026	11751	22	2-008	24-574	11752	20	2-358	24-266	11753	50	4-334	24-380	11754	18	6-369	24-335	11755	37	8-140	24-654	11756	16	9-466	24-582	11757	25	10-676	24-654	11758	35	12-017	24-164	11759	11	13-286	24-130	11760	19	13-311	24-759	11761	15	13-594	24-755	11762	35	13-890	24-106	11763	13	14-464	24-044	11764	12	15-262	24-544	11765	15	16-418	24-924	11766	31	19-428	24-102	11767	36	17-709	24-266	11768	17	20-804	24-146	11769	32	24-210	24-656	11770	50	24-916	24-076	11771	66	1-700	25-424	11772	14	2-084	25-884	11773	11	4-994	25-640	11774	15	8-232	25-834	11775	11	8-660	25-976	11776	14	10-218	25-400	11777	13	11-268	25-436	11778	14	11-553	25-016	11779	32	12-751	25-874	11780	38	19-118	25-159	11781	17	19-662	25-542	11782	42	19-863	25-586	11783	30	20-642	25-424	11784	19	25-443	2-847	11785	27	0-975	3-964	11786	20	1-953	3-406	11787	27	2-401	3-410	11788	13	12-371	3-472	11789	33	15-812	3-148	11790	23	15-944	3-580	11791	23	17-094	3-020	11792	25	17-105	3-125	11793	32	17-850	3-053	11794	12	20-292	3-376	11795	27	21-010	3-748	11796	10	22-780	3-530	11797	14	23-430	3-056	11798	17	24-130	3-13
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44928	29	19-084	6-944	45000	35	20-693	9-550	45072	41	10-110	12-045	45144	19	3-875	15-478	45216	28	1-236	19-856
44929	17	20-002	6-260	45001	23	21-079	9-348	45073	22	17-276	12-327	45145	13	4-044	15-410	45217	28	1-840	19-260
44930	30	20-090	6-325	45002	13	21-090	9-940	45074	20	17-515	12-410	45146	13	5-514	15-725	45218	47	2-504	19-577
44931	13	22-006	6-233	45003	77	22-800	9-982	45075	27	18-516	12-620	45147	23	5-960	15-291	45219	26	3-820	19-876
44932	24	22-320	6-137	45004	10	23-000	9-388	45076	23	18-621	12-644	45148	20	7-587	15-382	45220	23	6-552	19-110
44933	28	22-712	6-820	45005	10	23-475	9-650	45077	28	19-174	12-704	45149	22	11-526	15-394	45221	29	6-858	19-444
44934	23	23-095	6-689	45006	16	24-388	9-240	45078	22	19-838	12-225	45150	16	12-524	15-368	45222	26	7-386	19-576
44935	15	23-494	6-531	45007	14	24-940	9-290	45079	14	20-234	12-920	45151	24	18-316	15-152	45223	13	7-426	19-352
44936	10	25-494	6-531	45008	12	24-962	9-942	45080	27	20-250	12-965	45152	24	18-649	15-190	45224	14	7-820	19-090
44937	20	1-616	7-572	45009	10	25-791	9-785	45081	25	22-078	12-466	45153	23	19-328	15-460	45225	14	9-008	19-051
44938	30	1-924	7-006	45010	10	0-420	10-586	45082	19	23-496	12-134	45154	19	19-895	15-348	45226	21	10-248	19-778
44939	69	3-443	7-094	45011	17	1-025	10-448	45083	11	25-804	12-261	45155	14	21-740	15-850	45227	18	11-215	19-946
44940	15	3-851	7-537	45012	49	1-600	10-956	45084	10	25-860	12-347	45156	17	23-400	15-188	45228	18	12-300	19-036
44941	19	4-175	7-523	45013	10	5-612	10-052	45085	28	1-116	13-436	45157	16	23-630	15-846	45229	12	14-442	19-374
44942	18	5-690	7-560	45014	13	6-214	10-920	45086	11	2-810	13-803	45158	15	24-036	15-566	45230	11	14-642	19-386
44943	19	6-671	7-341	45015	24	8-130	10-429	45087	12	3-848	13-333	45159	14	24-434	15-002	45231	32	15-342	19-194
44944	25	6-706	7-364	45016	38	8-266	10-163	45088	16	5-560	13-333	45160	14	24-966	15-546	45232	15	15-422	19-388
44945	28	9-206	7-220	45017	13	8-891	10-775	45089	11	6-318	13-968	45161	17	25-800	15-340	45233	33	17-345	19-304
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46367	34	6.688	18.150	4.439	18	14.319	20.912	4.511	15	10.008	23.604	4.606	29	6.824	0.154	4.668	15	9.028	4.809
46368	19	6.872	18.510	4.440	53	15.202	20.165	4.512	18	10.619	23.340	4.607	23	7.322	0.084	4.669	28	9.648	4.835
46369	42	6.932	18.240	4.441	13	15.370	20.250	4.513	20	10.234	23.058	4.608	14	8.762	0.364	4.670	13	10.788	4.372
46370	17	6.959	18.020	4.442	23	15.709	20.294	4.514	18	12.426	23.298	4.609	23	11.327	0.640	4.671	14	14.240	4.500
46371	56	7.330	18.316	4.443	17	16.652	20.802	4.515	12	12.904	23.604	4.610	39	11.462	0.660	4.672	32	15.370	4.625
46372	14	8.530	18.093	4.444	69	16.868	20.000	4.516	16	13.364	23.186	4.611	15	12.708	0.578	4.673	13	17.628	4.963
46373	26	8.570	18.058	4.445	13	18.332	20.662	4.517	13	13.984	23.220	4.612	14	13.350	0.930	4.674	18	20.214	4.162
46374	10	9.706	18.152	4.446	19	20.528	20.044	4.518	21	14.316	23.888	4.613	14	15.552	0.326	4.675	18	20.226	4.224
46375	12	9.902	18.250	4.447	39	20.540	20.216	4.519	11	14.910	23.506	4.614	20	16.884	0.684	4.676	23	23.770	4.985
46376	11	9.904	18.386	4.448	10	22.869	20.458	4.520	19	15.384	23.550	4.615	22	18.174	0.530	4.677	17	24.206	4.498
46377	30	10.206	18.201	4.449	18	23.344	20.412	4.521	30	20.352	23.610	4.616	19	18.420	0.024	4.678	19	24.980	4.752
46378	21	12.062	18.104	4.450	17	23.945	20.328	4.522	48	23.028	23.522	4.617	24	19.190	0.166	4.679	27	1.790	5.462
46379	12	12.582	18.056	4.451	23	0.057	21.730	4.523	37	23.352	23.162	4.618	42	22.076	0.334	4.680	13	2.297	5.014
46380	16	13.256	18.017	4.452	13	0.288	21.103	4.524	11	25.514	23.833	4.619	31	0.504	1.804	4.681	36	2.550	5.904
46381	10	13.598	18.202	4.453	15	1.202	21.723	4.525	15	1.806	24.764	4.620	25	2.928	1.620	4.682	14	2.634	5.915
46382	38	16.142	18.924	4.454	14	3.582	21.428	4.526	21	2.743	24.682	4.621	37	4.312	1.478	4.683	20	3.810	5.515
46383	18	16.844	18.832	4.455	20	4.614	21.626	4.527	15	3.174	24.210	4.622	29	5.212	1.345	4.684	30	9.622	5.884
46384	10	17.417	18.506	4.456	15	5.518	21.262	4.528	12	5.304	24.407	4.623	17	8.530	1.112	4.685	29	10.383	5.282
46385	25	17.722	18.895	4.457	38	5.704	21.594	4.529	34	5.608	24.854	4.624	55	10.896	1.876	4.686	60	11.910	5.801
46386	13	17.912	18.536	4.458	20	8.120	21.984	4.530	11	7.282	24.613	4.625	29	11.138	1.418	4.687	15	12.266	5.634
46387	28	19.754	18.136	4.459	11	9.066	21.786	4.531	14	8.404	24.500	4.626	27	12.924	1.121	4.688	32	13.730	5.790
46388	12	20.138	18.912	4.460	26	9.756	21.817	4.532	13	10.618	24.956	4.627	27	13.788	1.818	4.689	23	13.742	5.880
46389	28	20.180	18.158	4.461	9	10.323	21.546	4.533	34	10.902	24.128	4.628	19	14.866	1.725	4.690	16	15.149	5.017
46390	20	21.636	18.749	4.462	12	11.776	21.031	4.534	16	11.852	24.726	4.629	68	17.398	1.636	4.691	25	18.188	5.658
46391	17	21.694	18.837	4.463	34	11.869	21.585	4.535	18	12.800	24.262	4.630	40	18.500	1.355	4.692	28	21.620	5.183
46392	9	22.505	18.226	4.464	15	13.072	21.012	4.536	45	13.110	24.778	4.631	13	20.252	1.760	4.693	34	22.510	5.004
46393	17	22.916	18.568	4.465	11	14.384	21.104	4.537	24	15.093	24.216	4.632	12	21.212	1.986	4.694	17	22.950	6.816
46394	37	24.598	18.212	4.466	23	14.590	21.808	4.538	13	16.484	24.038	4.633	49	22.697	1.730	4.695	41	9.542	6.572
46395	14	0.785	19.386	4.467	18	16.915	21.896	4.539	14	17.142	24.521	4.634	15	0.902	2.142	4.696	20	13.644	6.254
46396	22	1.358	19.314	4.468	15	17.462	21.838	4.540	24	20.570	24.218	4.635	28	3.028	2.574	4.697	21	15.460	6.236
46397	18	4.416	19.478	4.469	17	17.564	21.300	4.541	18	22.575	24.111	4.636	14	3.966	2.418	4.698	02	17.956	6.217
46398	18	5.843	19.598	4.470	45	17.640	21.246	4.542	15	23.828	24.986	4.637	52	6.840	2.640	4.699	23	20.280	6.240
46399	25	5.893	19.822	4.471	42	17.704	21.738	4.543	38	3.196	25.284	4.638	14	10.160	2.229	4.700	53	20.660	6.846
46400	29	6.082	19.950	4.472	13	18.083	21.772	4.544	10	3.738	25.990	4.639	15	11.386	2.028	4.701	27	23.701	6.006
46401	15	7.212	19.502	4.473	10	18.248	21.913	4.545	11	6.037	25.155	4.640	40	12.821	2.920	4.702	10	24.455	6.005
46402	18	7.527	19.393	4.474	15	18.848	21.965	4.546	64	11.051	25.532	4.641	27	13.430	2.552	4.703	25	24.550	6.762
46403	52	8.416	19.014	4.475	12	20.745	21.382	4.547	13	11.165	25.434	4.642	55	13.956	2.262	4.704	31	1.218	7.174
46404	20	9.473	19.832	4.476	26	21.414	21.651	4.548	8	11.342	25.470	4.643	40	14.908	2.559	4.705	29	4.836	7.990
46405	15	9.651	19.062	4.477	10	23.036	21.236	4.549	17	11.614	25.466	4.644	26	15.463	2.909	4.706	36	5.884	7.976
46406	30	10.230	19.298	4.478	43	23.798	21.792	4.550	25	13.094	25.390	4.645	35	15.494	2.689	4.707	39	7.086	7.755
46407	37	10.932	19.517	4.479	22	0.750	22.788	4.551	18	15.056	25.422	4.646	39	20.654	2.109	4.708	27	7.808	7.266
46408	20	11.420	19.544	4.480	20	1.288	22.972	4.552	13	16.606	25.852	4.647	57	21.112	2.546	4.709	62	10.059	7.200
46409	10	12.281	19.252	4.481	19	1.385	22.378	4.553	10	21.499	25.472	4.648	54	22.225	2.429	4.710	20	10.775	7.079
46410	11	13.376	19.782	4.482	14	1.802	22.156	4.554	46	24.677	25.892	4.649	26	22.487	2.388	4.711	34	11.373	7.016
46411	21	15.471	19.404	4.483	21	4.028	22.200	4.555	58	24.798	25.338	4.650	26	23.790	2.200	4.712	38	11.935	7.513
46412	14	15.991	19.642	4.484	24	4.196	22.526	4.556	18	25.193	25.187	4.651	15	24.092	2.170	4.713	16	12.261	7.450
46413	23	16.128	19.797	4.485	23	5.086	22.174					4.652	68	0.514	3.824	4.714	18	12.608	7.022
46414	16	17.424	19.558	4.486	11	6.650	22.924					4.653	16	0.814	3.534	4.715	31	16.770	7.619
46415	31	17.659	19.881	4.487	10	8.043	22.118					4.654	32	3.219	3.838	4.716	27	16.970	7.986
46416	18	18.070	19.234	4.488	20	8.542	22.612					4.655	68	3.320	3.918	4.717	28	19.014	7.406
46417	25	18.769	19.504	4.489	16	9.062	22.308					4.656	33	4.600	3.261	4.718	37	19.342	7.730
46418	19	19.204	19.509	4.490	18	9.234	22.212					4.657	28	7.070	3.910	4.719	14	21.560	7.630
46419	12	19.627	19.678	4.491	32	12.562	22.579					4.658	25	8.519	3.880	4.720	43	22.459	7.512
46420	17	19.760	19.560	4.492	17	13.882	22.768					4.659	25	9.020	3.100	4.721	13	24.777	7.837
46421	17	23.339	19.172	4.493	13	14.188	22.042					4.660	27	11.262	3.942	4.722	26	25.324	7.814
46422	27	24.624	19.292	4.494	18	14.424	22.206					4.661	32	11.638	3.588	4.723	24	25.340	7.802
46423	24	25.525	19.276	4.495	15	14.829	22.173					4.662	32	11.815	3.993	4.724	17	0.160	8.232
46424	16	0.676	20.773	4.496	45	16.382	22.780					4.663	20	11.822	3.176	4.725	26	0.850	8.962
46425	19	1.158	20.192	4.497	19	17.851	22.961					4.664	20	16.100	3.008	4.726	26	2.837	8.423
46426	8	1.171	20.668	4.498	14	18.228	22.702					4.665	27	16.432	3.629	4.727	120	3.345	8.630
46427	43	1.408	20.926	4.499	18	19.500	22.288					4.666	47	18.870	3.252	4.728	24	5.650	8.756
46428	23	4.976	20.733	4.500	50	19.932	22.672					4.667	32	19.364	3.548	4.729	52	5.851	8.024
46429	14	5.186	20.843	4.501	18	20.316	22.270					4.668	33	19.822	3.731	4.730	20	6.984	8.603
46430	41	5.588	20.958	4.502	40														



46749	15	20 148	8-742	46821	91	12-104	12-110	10-893	26	8-896	15-264	46965	12	7-052	19-945	47037	28	23-652	23-816
46750	27	0-280	9-196	46822	32	12-582	12-520	10-894	48	11-568	15-481	46966	28	7-854	19-857	47038	13	0-616	24-030
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46756	31	6-896	9-499	46828	25	17-291	12-911	10-900	20	19-009	15-518	46972	23	22-262	19-226	47044	34	11-770	24-598
46757	28	10-250	9-914	46829	22	17-566	12-782	10-901	30	19-373	15-786	46973	27	24-196	19-560	47045	12	12-277	24-856
46758	17	10-793	9-513	46830	21	19-511	12-580	10-902	21	21-500	15-437	46974	49	24-502	19-428	47046	15	12-365	24-170
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46762	17	14-504	9-593	46834	46	0-051	13-887	10-906	16	2-632	16-202	46978	16	1-966	20-231	47050	17	16-912	24-180
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46780	13	15-380	10-574	46852	28	19-107	13-280	10-924	26	9-496	17-344	46996	25	9-282	21-226	47068	28	11-297	25-316
46781	13	16-600	10-113	46853	12	19-210	13-349	10-925	42	11-040	17-696	46997	14	9-360	21-262	47069	25	11-720	25-040
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46785	17	18-150	10-174	46857	30	21-680	13-786	10-929	23	12-213	17-459	47001	12	18-302	21-268	47073	54	14-830	25-297
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46795	27	25-544	10-780	46867	15	5-022	14-206	10-939	12	18-442	17-288	47011	23	10-776	22-102				
46796	14	0-136	11-510	46868	19	5-086	14-005	10-940	40	21-202	17-663	47012	36	11-269	22-520				
46797	27	0-438	11-393	46869	14	7-156	14-923	10-941	24	21-298	17-814	47013	30	12-076	22-488				
46798	43	1-724	11-662	46870	51	7-233	14-033	10-942	25	21-326	17-498	47014	15	12-310	22-879				
46799	118	3-638	11-878	46871	14	8-921	14-362	10-943	27	21-607	17-280	47015	15	12-544	22-166				
46800	25	3-758	11-530	46872	23	9-700	14-950	10-944	40	21-654	17-898	47016	40	13-706	22-300				
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46802	44	6-008	11-424	46874	24	13-164	14-994	10-946	13	24-703	17-706	47018	21	16-082	22-627				
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46804	43	7-451	11-010	46876	18	16-629	14-323	10-948	39	2-586	18-104	47020	32	22-150	22-786				
46805	30	7-860	11-433	46877	28	16-648	14-888	10-949	14	9-634	18-222	47021	19	25-198	22-356				
46806	21	9-180	11-656	46878	38	16-866	14-820	10-950	14	10-210	18-904	47022	57	1-085	23-439				
46807	30	9-802	11-374	46879	24	19-076	14-168	10-951	60	10-578	18-332	47023	42	1-404	23-074				
46808	32	13-432	11-408	46880	12	20-201	14-418	10-952	95	11-900	18-897	47024	14	3-583	23-715				
46809	84	14-136	11-833	46881	22	21-234	14-965	10-953	26	12-030	18-235	47025	36	7-118	23-316				
46810	14	16-710	11-859	46882	33	22-089	14-458	10-954	24	15-748	18-320	47026	42	7-800	23-715				
46811	43	16-738	11-622	46883	15	22-146	14-502	10-955	27	18-872	18-962	47027	25	9-793	23-547				
46812	48	17-700	11-360	46884	23	22-765	14-956	10-956	34	19-265	18								







47465	48	25.896	17.708	47537	24	11.550	21.234	47609	15	5.486	25.076	47678	12	25.110	1.030	47750	17	0.666	6.975
47466	30	0.055	18.050	47538	33	12.650	21.815	47610	34	3.273	25.022	47679	33	25.802	1.562	47751	22	1.142	6.981
47467	10	2.518	18.624	47539	10	12.800	21.381	47611	10	3.944	25.078	47680	20	1.124	2.347	47752	10	2.052	6.518
47468	26	2.989	18.564	47540	28	12.978	21.905	47612	32	5.136	25.200	47681	18	2.234	2.830	47753	20	7.124	6.068
47469	25	3.838	18.885	47541	11	16.652	21.927	47613	10	8.174	25.100	47682	31	3.774	2.876	47754	31	8.708	6.998
47470	20	9.285	18.191	47542	33	17.302	21.644	47614	30	9.852	25.755	47683	11	7.750	2.971	47755	14	9.264	6.470
47471	24	9.624	18.160	47543	25	21.003	21.642	47615	12	9.866	25.225	47684	16	8.142	2.537	47756	17	9.808	6.937
47472	10	10.290	18.174	47544	25	21.129	21.166	47616	30	10.960	25.954	47685	22	13.432	2.304	47757	18	12.358	6.374
47473	17	10.480	18.102	47545	23	21.878	21.882	47617	17	11.800	25.700	47686	18	16.148	2.175	47758	20	13.507	6.418
47474	43	12.805	18.362	47546	10	22.172	21.600	47618	18	14.665	25.071	47687	33	17.803	2.977	47759	8	13.825	6.468
47475	12	13.436	18.550	47547	10	22.820	21.268	47619	10	17.003	25.866	47688	37	20.498	2.711	47760	21	14.412	6.534
47476	10	13.516	18.730	47548	40	24.058	21.202	47620	16	17.738	25.362	47689	27	20.584	2.392	47761	17	16.550	6.870
47477	19	17.362	18.012	47549	22	3.310	22.581	47621	24	18.750	25.632	47690	18	22.118	2.817	47762	23	17.209	6.975
47478	30	17.820	18.252	47550	24	3.750	22.452	47622	32	20.222	25.350	47691	10	24.790	2.444	47763	14	20.820	6.563
47479	23	17.982	18.261	47551	12	6.124	22.828	47623	34	21.342	25.900	47692	9	0.517	3.516	47764	31	21.481	6.079
47480	12	19.703	18.883	47552	37	6.985	22.640	47624	34	22.274	25.830	47693	17	2.050	3.380	47765	25	22.690	6.090
47481	12	19.964	18.375	47553	54	8.900	22.728	47625	33	22.738	25.818	47694	11	7.584	3.070	47766	15	23.038	6.425
47482	26	20.842	18.206	47554	14	10.147	22.912	47626	31	23.219	25.256	47695	31	8.044	3.746	47767	16	23.265	6.398
47483	10	22.072	18.732	47555	25	11.488	22.681	47627	10	24.440	25.282	47696	16	9.410	3.048	47768	15	0.172	7.813
47484	74	24.273	18.946	47556	12	12.024	22.659	47628	32	24.698	25.320	47697	22	10.844	3.400	47769	10	0.832	7.730
47485	14	0.323	19.502	47557	25	12.344	22.420	47629	26	25.600	25.266	47698	10	11.364	3.720	47770	12	1.420	7.924
47486	25	2.561	19.798	47558	27	12.700	22.502					47699	12	15.200	3.044	47771	13	2.994	7.474
47487	42	2.620	19.664	47559	10	12.948	22.844					47700	32	17.320	3.668	47772	9	5.487	7.072
47488	24	4.944	19.130	47560	10	13.254	22.382					47701	11	20.310	3.588	47773	25	6.796	7.908
47489	13	5.773	19.778	47561	12	14.892	22.360					47702	76	21.361	3.742	47774	32	6.824	7.614
47490	10	8.050	19.570	47562	38	15.224	22.812					47703	37	21.640	3.809	47775	63	7.338	7.916
47491	17	9.588	19.915	47563	18	16.137	22.317					47704	10	22.538	3.854	47776	12	7.926	7.906
47492	13	9.648	19.367	47564	45	17.815	22.648					47705	17	22.794	3.822	47777	68	8.348	7.764
47493	34	11.205	19.720	47565	28	18.806	22.751					47706	30	24.045	3.403	47778	20	9.794	7.618
47494	18	12.792	19.562	47566	30	19.496	22.312					47707	21	25.439	3.620	47779	28	10.160	7.454
47495	45	13.064	19.523	47567	27	21.140	22.320					47708	10	1.515	4.480	47780	17	11.602	7.566
47496	21	14.965	19.685	47568	24	22.030	22.308					47709	14	2.063	4.000	47781	10	12.210	7.757
47497	25	15.045	19.371	47569	12	23.258	22.964					47710	15	2.290	4.828	47782	41	13.113	7.383
47498	25	17.338	19.690	47570	30	24.445	22.328					47711	11	2.997	4.750	47783	15	14.658	7.317
47499	16	18.288	19.094	47571	14	24.512	22.228					47712	17	5.442	4.402	47784	51	14.940	7.224
47500	22	18.788	19.908	47572	11	0.152	23.764					47713	72	7.482	4.275	47785	13	15.416	7.446
47501	13	19.870	19.690	47573	30	0.268	23.066					47714	38	8.854	4.504	47786	46	16.267	7.477
47502	36	24.770	19.797	47574	13	4.431	23.147					47715	34	8.945	4.368	47787	39	18.748	7.366
47503	19	1.565	20.714	47575	22	5.928	23.468					47716	34	9.310	4.908	47788	9	21.307	7.460
47504	35	2.711	20.010	47576	33	6.194	23.826					47717	22	9.445	4.900	47789	12	22.130	7.405
47505	25	3.697	20.132	47577	37	8.084	23.154					47718	36	10.565	4.438	47790	11	22.364	7.238
47506	12	3.794	20.590	47578	31	9.392	23.528					47719	12	10.790	4.118	47791	10	23.348	7.568
47507	10	5.086	20.658	47579	19	9.578	23.470					47720	30	12.586	4.389	47792	20	24.000	7.718
47508	23	6.042	20.146	47580	10	11.310	23.776					47721	20	13.257	4.752	47793	16	1.246	8.839
47509	10	6.238	20.842	47581	42	11.950	23.622					47722	17	13.270	4.614	47794	16	1.480	8.342
47510	12	6.842	20.301	47582	11	12.584	23.089					47723	12	13.540	4.347	47795	22	3.714	8.370
47511	18	8.330	20.944	47583	34	13.396	23.810					47724	53	14.403	4.190	47796	66	5.545	8.559
47512	10	8.606	20.752	47584	20	14.836	23.636					47725	23	15.260	4.980	47797	12	11.258	8.926
47513	31	8.642	20.208	47585	14	15.624	23.708					47726	11	16.550	4.740	47798	19	11.800	8.512
47514	44	9.416	20.308	47586	22	16.050	23.932					47727	18	17.097	4.058	47799	12	12.384	8.326
47515	15	10.578	20.422	47587	45	17.310	23.784					47728	47	17.112	4.624	47800	15	12.904	8.122
47516	16	11.321	20.591	47588	25	17.410	23.708					47729	13	17.242	4.017	47801	18	13.458	8.747
47517	26	11.588	20.270	47589	10	17.730	23.738					47730	32	20.610	4.128	47802	15	15.909	8.762
47518	13	11.695	20.215	47590	15	19.810	23.620					47731	17	21.286	4.518	47803	38	16.436	8.308
47519	26	16.262	20.218	47591	24	22.728	23.215					47732	20	22.394	4.730	47804	31	16.810	8.703
47520	24	18.059	20.390	47592	23	25.847	23.910					47733	52	23.918	4.873	47805	15	16.943	8.542
47521	24	20.568	20.170	47593	14	1.202	24.428					47734	20	24.590	4.980	47806	17	19.490	8.084
47522	35	21.334	20.161	47594	24	1.790	24.066					47735	15	25.700	4.713	47807	32	24.500	8.852
47523	27	23.420	20.075	47595	35	2.708	24.856					47736	10	0.260	5.762	47808	18	25.028	8.952
47524	10	25.482	20.848	47596	10	7.666	24.432					47737	10	4.065	5.895	47809	11	25.260	8.287
47525	26	25.604	20.818	47597	30	7.677	24.776					47738	13	5.076	5.772	47810	16	1.224	9.972
47526	35	2.824	21.196	47598	25	11.408	24.204					47739	20	5.460	5.130	47811	20	3.516	9.661
47527	22	4.520	21.820	47599	42	13.538	24.160					47740	20	7.107	5.542	47812	13	4.053	9.874
47528	12	4.736	21.416	47600	13	14.329	24.488					47741	38	7.960	5.426	47813	17	4.647	9.012
47529	33	5.955	21.218	47601	10	14.440	24.787					47742	27	7.982	5.581	47814	40	5.340	9.123
47530	20	6.206	21.888	47602	27	17.296	24.422					47743	20	10.974	5.243	47815	17	5.367	9.670
47531	10	6.352	21.973	47603	33	18.732	24.060					47744	12	13.752	5.175	47816	46	5.980	9.860
47532	23	8.059	21.112	47604	10	19.908	24.5												



47822	12	10-044	9-552	47804	31	1-527	13-152	47966	26	22-030	10-120	48038	15	13-196	20-675	48110	20	2-076	24-278
47823	30	18-827	9-102	47805	18	1-526	13-062	47967	22	23-782	16-751	48039	16	14-866	20-344	48111	25	4-215	24-060
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47826	25	10-620	9-510	47808	30	3-532	13-415	47970	26	6-334	17-131	48042	14	20-384	20-072	48114	20	12-836	24-004
47827	35	21-303	9-205	47809	25	6-132	13-857	47971	18	7-524	17-125	48043	27	22-724	20-171	48115	15	14-232	24-581
47828	23	22-098	9-637	47810	14	6-504	13-770	47972	18	8-704	17-133	48044	46	25-571	20-686	48116	48	16-333	24-871
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47836	21	8-028	10-708	47818	17	19-471	13-022	47980	32	17-058	17-800	48052	28	6-792	21-336	48124	19	8-022	25-062
47837	12	11-870	10-107	47819	19	20-376	13-070	47981	21	18-712	17-228	48053	28	6-800	21-700	48125	30	8-541	25-474
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47839	31	13-162	10-120	47821	31	0-293	14-682	47983	14	20-520	17-538	48055	19	8-817	21-182	48127	17	11-546	25-874
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47844	14	15-675	10-607	47826	30	5-902	14-192	47988	29	3-862	18-108	48060	16	12-874	21-645	48132	23	18-750	25-428
47845	18	18-112	10-260	47827	23	6-180	14-826	47989	26	5-548	18-080	48061	13	13-311	21-083	48133	25	19-874	25-584
47846	21	18-642	10-501	47828	23	8-982	14-963	47990	29	5-634	18-304	48062	36	13-724	21-423				
47847	26	18-728	10-204	47829	11	10-229	14-685	47991	15	6-838	18-670	48063	19	14-206	21-027				
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47850	22	5-500	11-043	47832	21	24-841	14-861	47994	21	10-622	18-258	48066	17	17-597	21-268				
47851	40	7-952	11-030	47833	34	25-610	14-400	47995	17	10-639	18-828	48067	14	18-875	21-014				
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47853	21	10-982	11-360	47835	18	3-478	15-177	47997	19	15-976	18-197	48069	10	22-767	21-478				
47854	20	12-564	11-117	47836	15	3-795	15-318	47998	32	16-050	18-814	48070	18	0-216	22-007				
47855	10	14-528	11-243	47837	19	5-008	15-932	47999	16	17-004	18-512	48071	19	0-376	22-518				
47856	18	14-564	11-876	47838	16	5-746	15-076	48000	19	19-417	18-808	48072	26	2-786	22-502				
47857	26	14-880	11-348	47839	15	9-100	15-025	48001	20	20-263	18-336	48073	18	2-854	22-400				
47858	19	15-034	11-109	47840	22	9-188	15-107	48002	44	20-400	18-372	48074	15	4-300	22-415				
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47860	17	15-730	11-457	47842	15	10-472	15-474	48004	40	21-528	18-680	48076	21	4-834	22-342				
47861	16	16-763	11-528	47843	11	12-674	15-774	48005	18	21-721	18-598	48077	13	6-363	22-544				
47862	16	17-030	11-983	47844	13	13-132	15-628	48006	18	22-148	18-754	48078	14	6-504	22-862				
47863	12	19-299	11-180	47845	17	13-715	15-459	48007	23	22-960	18-804	48079	21	9-507	22-042				
47864	20	19-946	11-870	47846	19	15-733	15-404	48008	21	23-797	18-388	48080	18	9-604	22-998				
47865	14	21-069	11-184	47847	22	16-027	15-760	48009	19	24-316	18-988	48081	32	12-876	22-073				
47866	42	24-056	11-732	47848	18	16-404	15-601	48010	85	2-554	19-122	48082	56	10-750	22-512				
47867	38	25-346	11-972	47849	20	20-506	15-198	48011	39	3-072	19-967	48083	32	20-611	22-076				
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47871	44	3-342	12-617	47853	19	22-064	15-851	48015	18	7-468	19-033	48087	32	23-500	22-990				
47872	15	3-944	12-079	47854	27	24-719	15-816	48016	10	7-518	19-108	48088	36	24-748	22-476				
47873	44	3-973	12-757	47855	18	25-556	15-708	48017	23	7-585	19-043	48089	26	25-255	22-590				
47874	17	5-555	12-749	47856	41	1-854	16-234	48018	20	7-810	19-624	48090	22	1-086	23-414				
47875	21	5-601	12-770	47857	21	2-600	16-731	48019	18	9-876	19-458	48091	13	1-612	23-157				
47876	19	6-184	12-332	47858	36	4-535	16-784	48020	13	10-292	19-178	48092	18	5-720	23-104				
47877	36	6-493	12-303	47859	53	4-608	16-202	48021	18	10-792	19-646	48093	30	6-918	23-358				
47878	37	6-721	12-532	47860	28	6-194	16-521	48022	18	10-820	19-087	48094	36	7-878	23-702				
47879	24	6-762	12-096	47861	16	8-878	16-518	48023	22	13-804	19-426	48095	31	10-808	23-312				
47880	67	7-842	12-438	47862	26	10-118	16-324	48024	18	14-370	19-243	48096	16	11-464	23-120				
47881	12	8-070	12-744	47863	30	10-168	16-808	48025	12	14-596	19-562	48097	13	16-326	23-278				
47882	29	8-499	12-148	47864	10	11-443	16-198	48026	20	15-744	19-652	48098	13	17-388	23-498				
47883	9	8-846	12-172	47865	12	12-530	16-754	48027	33	18-254	19-082	48099	22	17-465	23-406				
47884	16	9-150	12-182	47866	37	13-400	16-948	48028	10	21-726	19-414	48100	12	17-612	23-523				
47885	14	11-378	12-410	47867	30	13-411	16-944	48029	45	24-613	19-252	48101	44	18-448	23-396				
47886	41	14-737	12-050	47868	30	15-682	16-228	48030	14	24-707	19-560	48102	15	22-496	23-152				
47887	31	15-157	12-874	47869	30	15-899	16-796	48031	10	25-418	19-286	48103	14	23-000	23-832				
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48175	26	19°364	2°35	48247	11	7°383	0°063	48310	17	11°250	1°125	48391	31	3°750	23°52	48471	10	22°047	0°130
48176	28	21°264	2°513	48248	35	7°450	0°158	48311	13	11°043	1°272	48392	16	7°570	23°780	48472	33	22°090	0°524
48177	30	1°092	3°032	48249	27	10°054	0°30	48312	34	10°221	1°015	48393	29	9°230	23°236	48473	34	23°189	0°106
48178	29	4°053	3°231	48250	18	12°011	0°070	48313	12	2°170	1°027	48394	33	10°033	23°237	48474	11	24°115	0°204
48179	11	0°770	3°748	48251*	44	16°310	0°452	48314	27	1°353	1°077	48395	13	10°042	23°270	48475	17	2°798	1°013
48180	12	7°356	3°318	48252	27	19°513	0°106	48315	17	1°541	1°011	48396	29	11°470	23°710	48476	34	2°913	1°061
48181	27	9°480	3°705	48253	17	20°403	0°775	48316	23	3°000	1°051	48397	27	12°220	23°410	48477	11	3°204	1°830
48182	27	11°568	3°970	48254	13	0°505	10°771	48317	20	1°430	1°031	48398	25	15°700	23°530	48478*	50	4°920	1°519
48183	22	13°742	3°128	48255*	48	1°296	10°157	48318	10	6°315	1°028	48399	22	1°733	23°335	48479	40	6°444	1°207
48184	20	14°042	3°46	48256	14	2°416	10°200	48319	23	1°011	1°036	48400	18	21°302	23°180	48480	33	6°551	1°127
48185	38	16°453	3°667	48257	28	8°456	10°833	48320	33	8°482	1°124	48401	45	1°550	24°033	48481	11	9°293	1°762
48186	30	18°830	3°643	48258	38	12°537	10°091	48321	10	12°537	1°205	48402	31	5°134	24°084	48482	24	10°818	1°898
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48242	30	4																	



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49327	9	12-331	17-502	49399	20	18-102	22-533					49528	25	2-407	4-114	49600	14	13-992	8-864
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49330	11	14-063	17-926	49402	29	20-699	22-381					49531	16	5-210	4-020	49603	19	16-574	8-658
49331	9	14-776	17-231	49403	20	21-280	22-742					49532	13	5-135	4-898	49604	10	16-787	8-588
49332	16	15-237	17-322	49404	35	21-851	22-184					49533	29	6-167	4-884	49605	10	16-887	8-582
49333	11	17-187	17-794	49405	38	23-952	22-364					49534	20	6-867	4-948	49606	13	18-040	8-136
49334	9	17-445	17-667	49406	11	25-530	22-806					49535	28	8-800	4-906	49607	20	18-341	8-735
49335	10	17-551	17-308	49407	10	15-333	23-648					49536	23	9-638	4-170	49608	11	21-294	8-138
49336	56	19-287	17-920	49408	10	15-814	23-959					49537	15	9-886	4-886	49609	24	21-720	8-185
49337	10	20-808	17-762	49409	15	15-996	23-363					49538	24	13-060	4-3				



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49617	23	5-195	9-058	49-89	14	12-840	12-804	49701	20	20-200	15-570	49833	32	20-214	15-101	49902	17	21-288	22-142
49618	16	5-652	9-535	49-90	21	14-553	12-200	49702	32	20-771	15-477	49834	12	22-060	15-868	49903	17	21-350	22-470
49619	12	6-265	9-106	49-91	16	14-714	12-032	49703	53	21-371	15-218	49835	12	22-222	15-719	49904	21	20-020	23-160
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49635	31	23-652	9-754	49-07	29	1-380	13-260	49719	33	11-002	11-010	49851	17	4-184	20-144	49920	15	3-066	24-340
49636	33	24-862	9-564	49-08	16	2-630	13-456	49720	23	14-037	11-730	49852	19	6-055	20-764	49921	100	4-262	24-831
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49638	46	4-995	10-735	49-10	11	4-531	13-174	49722	15	17-715	11-465	49854	13	9-356	20-713	49923	18	6-617	24-076
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49640	29	6-885	10-006	49-12	15	6-136	13-415	49724	17	17-301	11-115	49856	13	9-926	20-688	49925	10	8-084	24-508
49641	48	7-792	10-460	49-13	13	8-000	13-127	49725	14	24-575	11-485	49857	42	10-150	20-720	49926	20	10-750	24-930
49642	15	8-262	10-995	49-14	37	10-520	13-472	49726	35	25-705	11-682	49858	18	15-188	20-590	49927	30	11-130	24-870
49643	27	15-956	10-629	49-15	15	15-828	13-960	49727	40	0-637	12-015	49859	16	15-372	20-925	49928	20	12-054	24-952
49644	26	15-994	10-884	49-16	17	16-710	13-983	49728	17	0-978	12-432	49860	10	16-254	20-165	49929	19	12-114	24-991
49645	15	18-656	10-094	49-17	17	16-803	13-171	49729	11	1-252	12-202	49861	16	17-264	20-246	49930	10	12-579	24-184
49646	10	18-742	10-506	49-18	15	17-716	13-550	49730	17	1-580	12-618	49862	26	18-210	20-670	49931	22	13-160	24-012
49647	12	18-764	10-308	49-19	14	17-820	13-260	49731	23	3-879	12-304	49863	17	20-412	20-518	49932	41	13-930	24-335
49648	33	19-328	10-319	49-20	11	19-110	13-098	49732	28	4-711	12-107	49864	23	21-650	20-637	49933	29	15-343	24-540
49649	21	0-588	11-800	49-21	26	20-210	13-781	49733	14	5-024	12-016	49865	18	22-544	20-350	49934	33	15-415	24-903
49650	21	0-670	11-135	49-22	17	22-474	13-587	49734	18	6-180	12-130	49866	33	23-420	20-650	49935	11	15-730	24-850
49651	46	1-272	11-536	49-23	15	23-840	13-306	49735	21	7-271	12-260	49867	10	23-430	20-873	49936	24	16-213	24-764
49652	13	1-300	11-794	49-24	30	23-928	13-720	49736	18	8-072	12-674	49868	11	24-317	20-120	49937	10	17-590	24-713
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49657	16	4-748	11-582	49-29	21	1-273	14-136	49741	16	15-147	12-546	49873	18	4-420	21-580	49942	10	25-166	24-940
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49659	17	8-770	11-150	49-31	13	2-607	14-305	49743	11	17-532	12-803	49875	33	5-174	21-088	49944	69	0-445	25-986
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49661	18	15-828	11-786	49-33	20	7-070	14-400	49745	42	18-582	12-177	49877	18	7-933	21-104	49946	29	2-138	25-131
49662	41	17-088	11-775	49-34	14	8-779	14-635	49746	21	18-802	12-810	49878	40	8-940	21-534	49947	23	3-317	25-537
49663	14	18-540	11-688	49-35	13	9-687	14-711	49747	18	18-972	12-912	49879	10	10-350	21-222	49948	18	4-291	25-993
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49666	21	21-546	11-058	49-38	11	12-228	14-233	49750	10	20-720	12-980	49882	12	14-017	21-878	49951	15	14-357	25-098
49667	40	21-684	11-244	49-39	21	14-035	14-389	49751	29	21-732	12-428	49883	11	17-328	21-100	49952	13	14-585	25-676
49668	27	23-608	11-067	49-40	18	14-944	14-017	49752	10	21-988	12-577	49884	22	18-595	21-317	49953	12	14-816	25-999
49669	40	25-720	11-590	49-41	28	15-760	14-460	49753	31	22-716	12-700	49885	20	19-440	21-935	49954	10	17-826	25-492
49670	23	25-920	11-850	49-42	22	16-030	14-404	49754	25	23-112	12-504	49886	13	20-963	21-535	49955	14	17-893	25-738
49671	13	0-941	12-200	49-43	20	17-678	14-741	49755	24	23-700	12-354	49887	25	21-320	21-870	49956	22	18-976	25-848
49672	18	1-403	12-109	49-44	18	19-586	14-804	49756	10	23-941	12-380	49888	51	24-462	21-324	49957	10	20-204	25-622
49673	20	1-430	12-143	49-45	63	21-474	14-850	49757	59	3-098	13-040	49889	13	25-026	21-812	49958	14	20-430	25-382
49674	18	1-710	12-166	49-46	18	22-060	14-300	49758	22	3-363	13-260	49890	42	2-014	22-730	49959	10	21-864	25-220
49675	15	1-815	12-091	49-47	27	23-541	14-483	49759	30	4-721	13-915	49891	16	3-137	22-952	49960	30	22-900	25-080
49676	21	3-080	12-350	49-48	14	23-556	14-612	49760	20	5-192	13-570	49892	13	5-184	22-090	49961	28	24-502	25-190
49677	14	3-248	12-807	49-49	28	24-086	14-140	49761	14	5-914	13-535	49893	10	5-403	22-601	49962			



R.A. 10:28:11

Plate 1545: 1920 Feb. 15.

### Provisional Constants

$$\begin{array}{ccc} A & B & C \\ -01731 & +01022 & -02305 \end{array}$$

D	E	F
-.01035	-.01757	-.0525

$$Mag. = 17.0 - 1.05 \sqrt{d}$$

No.	d	r	#
50001	23	0-540	0-770
50002	31	0-547	0-124
50003	27	4-845	0-449
50004	26	5-004	0-100
50005	34	0-078	0-035
50006	35	8-062	0-362
50007	12	8-184	0-880
50008	23	0-245	0-820
50009	20	10-428	0-122
50010	37	12-033	0-814
50011	11	13-458	0-257
50012	13	14-040	0-072
50013	12	18-152	0-114
50014	16	21-372	0-900
50015	45	21-550	0-264
50016	47	23-125	0-652
50017	30	23-299	0-418
50018	52	2-555	1-214
50019*	33	5-433	1-901
50020	12	10-310	1-963
50021	42	10-866	1-620
50022	32	14-450	1-332
50023	12	16-817	1-785
50024	10	18-232	1-037
50025	10	20-396	1-861
50026	16	20-410	1-281
50027	31	22-542	1-581
50028	10	23-074	1-586
50029	43	23-248	1-705
50030	10	23-549	1-260
50031	43	25-687	1-200
50032*	45	0-632	2-978
50033	18	2-619	2-910
50034	18	3-750	2-486
50035	15	5-358	2-027
50036	20	6-754	2-672
50037	12	7-112	2-370
50038	44	9-372	2-366
50039	11	9-788	2-029
50040	12	9-976	2-952
50041	39	11-266	2-964
50042	16	12-363	2-970
50043	24	13-615	2-838
50044	12	14-772	2-277
50045	40	16-512	2-727
50046	21	19-042	2-766
50047	22	19-068	2-782
50048	11	22-828	2-276
50049	24	23-384	2-466
50050	25	25-914	2-852
50051	33	2-012	3-522
50052	20	2-552	3-623
50053	13	3-868	3-422
50054*	48	4-514	3-794
50055	26	5-586	3-344
50071	34	21-558	3-503
50072	24	24-864	3-732
50073	31	0-010	4-572
50074	13	0-375	4-046
50075	32	1-012	4-190
50076*	45	4-228	4-192
50077	12	11-304	4-430
50078	36	11-623	4-209
50079	38	12-125	4-016
50080	19	12-729	4-472
50081	10	12-751	4-500
50082	14	12-786	4-813
50083	30	17-258	4-780
50084*	43	18-124	4-622
50085	13	19-366	4-578
50086	24	25-950	4-696
50087	20	0-012	5-804
50088	29	0-988	5-678
50089	32	1-060	5-030
50090	28	2-461	5-537
50091	10	2-507	5-550
50092	19	6-405	5-313
50093	15	8-000	5-916
50094	10	9-660	5-430
50095	11	9-678	5-150
50096	10	11-135	5-700
50097	10	12-919	5-872
50098	13	13-660	5-441
50099	22	14-629	5-963
50100	32	15-788	5-120
50101	30	19-350	5-597
50102	12	20-201	5-324
50103	16	21-082	5-541
50104	14	21-235	5-670
50105	22	21-405	5-828
50106	16	24-240	5-272
50107	31	24-500	5-980
50108*	40	24-675	5-736
50109	26	25-970	5-459
50110	31	0-112	6-812
50111	26	1-070	6-405
50112	23	3-798	6-214
50113	17	8-312	6-742
50114	29	11-622	6-138
50115	19	13-427	6-950
50116	26	13-880	6-698
50117	27	14-624	6-277
50118	35	14-663	6-417
50119	29	15-808	6-631
50120	32	15-955	6-238
50121	42	17-364	6-325
50122	25	18-349	6-517
50123	22	18-926	6-262
50124	30	19-752	6-315
50125	26	22-682	6-744
50126	32	24-751	6-192
50127	38	25-319	6-258
50142	20	14-071	7-088
50143	44	14-075	7-522
50144	12	14-115	7-734
50145	33	16-816	7-590
50146	40	19-634	7-463
50147	25	0-970	8-542
50148	10	1-372	8-100
50149	23	2-070	8-162
50150	21	4-694	8-159
50151	11	6-030	8-012
50152	31	7-566	8-530
50153	21	7-900	8-365
50154	28	8-014	8-226
50155	32	8-397	8-794
50156	40	10-109	8-608
50157	12	12-670	8-306
50158	33	15-684	8-140
50159	21	16-218	8-562
50160	35	18-229	8-618
50161	22	19-434	8-806
50162	12	19-632	8-064
50163	28	19-650	8-166
50164	10	22-165	8-324
50165	10	22-372	8-379
50166	14	22-806	8-791
50167	32	1-560	9-916
50168	35	2-766	9-710
50169	10	4-396	9-442
50170	10	4-414	9-626
50171	12	5-766	9-942
50172	31	5-914	9-197
50173	40	6-086	9-404
50174	13	6-710	9-184
50175	19	7-164	9-196
50176*	55	7-348	9-174
50177*	41	7-837	9-299
50178	12	7-875	9-618
50179	10	10-212	9-374
50180	14	12-938	9-650
50181	32	14-026	9-222
50182	36	14-160	9-680
50183	10	14-706	9-306
50184	15	14-888	9-896
50185	24	16-659	9-177
50186	12	17-150	9-077
50187	30	17-554	9-708
50188	27	18-028	9-577
50189	30	18-868	9-007
50190	14	21-412	9-857
50191	15	24-608	9-130
50192	38	6-762	10-888
50193	22	8-976	10-848
50194	33	9-313	10-346
50195	30	10-314	10-054
50196	16	10-748	10-933
50197	25	10-934	10-384
50198	16	11-477	10-884
50199	10	15-137	10-901
50214	24	10-587	11-722
50215	25	10-360	11-099
50216	23	12-240	11-888
50217	30	12-686	11-478
50218	12	16-444	11-586
50219	22	18-555	11-830
50220	12	20-049	11-158
50221	13	20-582	11-364
50222	15	20-820	11-828
50223*	49	21-264	11-714
50224	33	21-991	11-605
50225	20	24-354	11-919
50226	18	24-446	11-292
50227	24	25-648	11-362
50228	16	1-151	12-874
50229	23	1-521	12-539
50230	10	1-781	12-777
50231	20	2-490	12-820
50232	22	5-090	12-504
50233	49	5-255	12-032
50234	10	5-366	12-527
50235	21	6-812	12-941
50236*	42	10-052	12-450
50237	27	11-398	12-237
50238	12	12-572	12-997
50239	32	13-390	12-130
50240*	43	15-198	12-830
50241	33	19-447	12-670
50242	12	19-520	12-782
50243	14	20-129	12-788
50244	38	20-892	12-572
50245	31	22-858	12-134
50246	23	23-862	12-737
50247	22	0-438	13-766
50248	28	0-914	13-139
50249*	49	1-322	13-018
50250	15	1-798	13-468
50251	33	1-891	13-880
50252	19	2-600	13-160
50253	16	2-608	13-770
50254	21	6-165	13-128
50255	29	11-883	13-849
50256	30	12-698	13-376
50257*	41	13-025	13-733
50258	44	14-940	13-904
50259*	43	16-418	13-716
50260	19	16-426	13-582
50261	25	17-901	13-538
50262	11	19-900	13-821
50263	10	20-253	13-244
50264*	41	21-000	13-881
50265	18	21-072	13-748
50266	31	25-576	13-546
50267	18	0-042	14-483
50268	30	1-516	14-646
50269	14	1-534	14-775
50270	30	2-054	14-297
50271	31	2-262	14-867
50287*	37	21-500	14-185
50288*	20	21-775	14-184
50289*	44	24-858	14-383
50290	12	2-195	15-635
50291	38	2-875	15-224
50292	21	4-090	15-290
50293	27	5-304	15-056
50294	10	6-626	15-590
50295	11	8-840	15-790
50296	11	9-650	15-43
50297	25	10-588	15-628
50298	15	10-884	15-340
50299	32	12-369	15-109
50300	17	12-478	15-323
50301	34	12-693	15-594
50302*	48	13-060	15-862
50303	17	14-067	15-868
50304	20	15-561	15-948
50305	20	16-222	15-338
50306	11	17-309	15-177
50307	36	18-824	15-298
50308	29	19-782	15-167
50309	25	21-109	15-611
50310	24	23-005	15-520
50311	39	25-369	15-260
50312	34	25-914	15-126
50313	20	2-300	16-300
50314	16	2-576	16-638
50315	11	3-338	16-440
50316	38	3-706	16-816
50317	31	5-318	16-274
50318	29	6-732	16-470
50319	22	9-287	16-584
50320	17	9-430	16-630
50321*	53	9-926	16-370
50322	44	10-178	16-389
50323	39	15-285	16-059
50324	12	15-596	16-210
50325	14	18-064	16-935
50326	10	18-378	16-448
50327	21	19-161	16-080
50328*	42	21-567	16-258
50329	17	22-672	16-752
50330	36	0-733	17-876
50331	31	1-126	17-674
50332	27	1-714	17-516
50333	10	3-835	17-876
50334	30	6-251	17-256
50335	24	6-644	17-902
50336	23	7-062	17-460
50337	16	9-460	17-364
50338	10	10-150	17-880
50339	34	13-918	17-978
50340*	40	14-047	17-943
50341	17	14-720	17-676
50342	11	15-682	17-840
50343	28	17-917	17-772



50344	20	18°58.4	17°07.7	50416	13	19°54.5	21°32.7	50556	24	20°40	3°7.3	50624	19	5°04	7°07.2
50345	10	20°55.6	17°37.4	50417	16	19°50.2	21°48.6	50557	17	1°6.33	3°8.12	50629	20	7°47.2	7°01.1
50346	38	21°47.1	17°70.8	50418	40	21°06.1	21°53.3	50558	30	5°50.7	3°4.41	50630	8	7°54.1	7°8.0
50347	12	22°34.7	17°73.0	50419	42	21°09.5	21°53.5	50559	12	6°08.1	3°0.48	50631	9	8°05.0	7°14.0
50348	13	22°82.0	17°03.0	50420	23	22°13.4	21°44.2	50560	9	2°77.0	3°0.84	50632	37	11°08.0	7°53.4
50349	13	25°34.6	17°23.1	50421	34	22°19.7	21°41.6	50561	19	6°44.4	3°17.0	50633	18	13°27.2	7°15.7
50350	36	0°25.4	18°00.2	50422	17	23°34.4	21°38.8	50562	21	6°17.0	3°8.00	50634	9	15°05.4	7°06.0
50351	10	3°53.0	18°61.3	50423	34	23°57.2	21°22.6	50563	16	11°06.3	3°36.0	50635	29	15°46.6	7°13.4
50352	80	4°33.9	18°08.6	50424	41	25°86.4	21°67.8	50564	10	12°55.3	3°8.37	50636	36	21°17.6	7°12.4
50353	10	4°02.2	18°08.6	50425	11	4°36.4	22°08.4	50565	29	19°01.7	3°58.2	50637	19	23°47.4	7°27.2
50354	13	7°73.9	18°19.4	50426	10	5°01.5	22°01.1	50566	13	17°44.4	3°71.7	50638	10	0°83.1	8°8.4
50355	25	8°6.5	18°00.2	50427	15	7°48.8	22°04.6	50567	18	17°51.8	3°24.0	50639	9	3°06.5	8°74.6
50356	11	8°73.5	18°33.0	50428	13	7°83.0	22°31.1	50568	14	17°06.5	3°04.1	50640	18	4°33.6	8°22.2
50357	13	8°06.6	18°43.7	50429	18	11°66.4	22°79.3	50569	19	17°00.5	3°08.8	50641	38	5°50.8	8°16.3
50358	24	10°92.2	18°89.6	50430	31	12°19.6	22°19.4	50570	25	20°74.1	3°55.7	50642	3	7°0.1	8°84.0
50359	31	11°03.0	18°37.0	50431	40	12°62.4	22°31.0	50571	14	20°77.8	3°21.0	50643	16	12°57.8	8°53.0
50360	17	11°36.1	18°13.1	50432	18	14°06.8	22°09.0	50572	22	23°64.8	3°02.6	50644	21	12°68.4	8°23.2
50361	10	17°66.0	18°05.7	50433	16	17°05.4	22°57.2	50573	14	25°88.0	3°01.7	50645	14	13°01.6	8°48.4
50362	39	17°85.4	18°35.2	50434	30	17°20.9	22°53.4	50574	25	3°13.6	4°73.6	50646	16	13°12.6	8°27.7
50363	28	19°77.8	18°35.3	50435	23	19°42.0	22°65.8	50575	63	4°83.0	4°22.1	50647	10	13°42.6	8°45.2
50364	18	24°33.7	18°06.6	50436	28	25°64.5	22°03.4	50576	49	7°62.5	4°53.0	50648	10	14°01.5	8°21.8
50365	10	25°08.4	18°40.2	50437	46	1°57.0	23°20.0	50577	32	8°23.6	4°19.6	50649	20	14°22.0	8°62.4
50366	19	25°70.2	18°27.6	50438	10	1°82.8	23°77.4	50578	59	9°01.5	4°51.6	50650	8	14°31.0	8°15.6
50367	39	4°27.4	19°08.4	50439	37	2°62.5	23°57.8	50579	20	12°20.2	4°23.2	50651	14	14°56.4	8°02.2
50368	32	5°39.5	19°59.6	50440	15	6°24.8	23°88.3	50580	18	13°17.5	4°05.3	50652	17	18°00.2	8°89.6
50369	16	6°55.2	19°10.7	50441	22	6°40.9	23°35.2	50581	15	14°58.8	4°21.0	50653	18	19°14.8	8°09.3
50370	28	6°73.8	19°40.4	50442	18	7°60.1	23°67.8	50582	42	17°86.4	4°80.4	50654	19	19°65.0	8°66.3
50371	27	9°19.5	19°20.5	50443	31	8°36.8	23°21.4	50583	13	18°30.0	4°55.5	50655	9	19°67.8	8°46.4
50372	10	10°10.1	19°23.7	50444	34	8°87.4	23°97.9	50584	10	20°88.2	4°74.2	50656	37	20°54.6	8°08.3
50373	35	10°11.2	19°40.0	50445	34	11°02.8	23°77.4	50585	22	22°22.7	4°06.3	50657	41	23°04.0	8°46.1
50374	11	11°25.4	19°68.2	50446	30	12°79.6	23°95.9	50586	15	24°07.7	4°56.3	50658	15	23°29.4	8°04.9
50375	21	11°81.0	19°00.8	50447	10	14°33.2	23°70.8	50587	17	2°23.2	5°33.1	50659	14	23°87.6	8°64.4
50376	11	12°60.4	19°31.8	50448	19	14°71.6	23°57.6	50588	44	2°66.7	5°79.0	50660	23	25°45.0	8°23.6
50377	35	14°35.8	19°22.4	50449	22	15°04.3	23°16.1	50589	25	3°06.4	5°50.0	50661	18	2°63.0	9°18.4
50378	32	14°62.6	19°08.6	50450	24	16°65.2	23°53.6	50590	36	5°16.0	5°53.7	50662	14	3°81.1	9°63.6
50379	12	14°78.1	19°73.2	50451	25	23°40.5	23°27.9	50591	19	5°60.6	5°25.7	50663	32	5°34.9	9°20.8
50380	20	15°76.2	19°05.3	50452	36	2°37.5	24°84.6	50592	16	8°13.0	5°74.8	50664	8	5°96.9	9°38.6
50381	36	15°87.8	19°28.8	50453	23	2°60.0	24°32.4	50593	29	9°31.3	5°76.1	50665	11	7°16.8	9°21.6
50382	39	18°59.4	19°56.2	50454	30	5°50.2	24°52.0	50594	25	10°85.6	5°01.9	50666	13	7°39.6	9°88.9
50383	22	18°95.8	19°07.8	50455	10	5°55.6	24°60.2	50595	25	11°28.6	5°17.8	50667	11	10°79.2	9°04.0
50384	47	23°23.2	19°72.6	50456	25	6°62.3	24°51.2	50596	14	11°20.4	5°63.5	50668	34	11°04.9	9°41.2
50385	31	23°74.8	19°52.0	50457	48	6°82.2	24°55.4	50597	11	15°04.8	5°70.2	50669	28	12°18.0	9°36.8
50386	18	0°60.0	20°53.2	50458	12	7°56.4	24°77.0	50598	24	17°16.8	5°6.02	50670	10	13°09.5	9°65.2
50387	33	7°70.5	20°58.8	50459	10	8°34.8	24°15.9	50599	22	17°6.91	5°54.2	50671	13	13°25.0	9°82.8
50388	16	8°02.1	20°66.6	50460	31	10°67.0	24°91.4	50600	12	18°71.1	5°87.8	50672	18	14°22.4	9°88.5
50389	10	8°45.9	20°00.5	50461	17	10°98.7	24°72.4	50601	42	19°33.7	5°80.6	50673	10	14°25.3	9°14.2
50390	48	10°27.6	20°65.4	50462	88	13°17.9	24°53.4	50602	20	19°42.3	5°6.05	50674	33	15°58.8	9°08.8
50391	31	10°62.0	20°61.0	50463	27	14°48.6	24°05.5	50603	24	0°68.8	6°81.7	50675	31	16°46.4	9°35.8
50392	10	13°63.8	20°40.4	50464	15	20°21.3	24°50.4	50604	29	2°49.6	6°03.5	50676	29	17°27.0	9°19.8
50393	34	16°68.2	20°25.0	50465	10	20°88.6	24°28.6	50605	22	2°75.0	6°24.6	50677	21	21°34.4	9°43.6
50394	60	18°01.0	20°64.5	50466	10	22°51.0	24°05.7	50606	40	3°31.7	6°30.5	50678	19	23°31.6	9°25.5
50395	22	18°35.6	20°04.6	50467	32	1°01.9	25°25.3	50607	9	4°48.6	6°75.8	50679	14	23°78.2	9°91.2
50396	20	18°48.0	20°49.1	50468	32	2°62.4	25°34.1	50608	16	4°08.8	6°50.0	50680	14	1°10.3	10°39.9
50397	10	18°67.2	20°03.2	50469	56	2°00.8	25°47.6	50609	10	5°50.4	6°81.2	50681	20	2°78.8	10°18.4
50398	11	19°34.8	20°44.7	50470	11	3°28.8	25°08.4	50610	17	5°75.4	6°59.6	50682	37	5°42.5	10°02.2
50399	10	19°37.5	20°35.6	50471	14	3°61.0	25°33.6	50611	13	6°50.7	6°94.3	50683	16	6°17.9	10°40.6
50400	41	20°10.8	20°45.0	50472	13	3°70.6	25°61.4	50612	14	6°63.3	6°70.2	50684	21	6°46.6	10°53.2
50401	35	1°48.1	21°12.1	50473	43	6°89.0	25°42.3	50613	9	10°04.7	6°64.3	50685	8	6°82.8	10°65.1
50402	10	1°49.6	21°03.8	50474	44	8°14.0	25°12.0	50614	23	12°53.2	6°35.2	50686	36	8°06.6	10°76.0
50403	45	2°55.6	21°47.6	50475	12	9°56.6	25°73.1	50615	14	12°04.4	6°74.6	50687	10	8°87.4	10°80.6
50404	42	3°09.7	21°05.4	50476	15	11°06.4	25°08.1	50616	40	14°88.0	6°08.0	50688	11	11°41.7	10°59.6
50405	84	4°21.8	21°36.8	50477	12	13°31.8	25°61.2	50617	10	16°67.2	6°07.8	50689	14	12°29.5	10°38.6
50406	44	5°49.3	21°57.3	50478	47	14°57.2	25°18.4	50618	12	17°06.4	6°51.0	50690	33	12°79.4	10°03.1
50407	19	8°38.4	21°00.4	50479	26	16°12.7	25°26.6	50619	10	18°51.0	6°87.2	50691	20	13°16.4	10°23.7
50408	23	8°73.0	21°04.6	50480	10	16°25.7	25°17.0	50620	10	18°07.3	6°06.2	50692	10	13°20.2	10°37.4
50409	29	9°73.2	21°03.2	50481	29	16°59.6	25°69.6	50621	50	19°12.0	6°53.0	50693	23	13°84.4	10°44.2
50410	33	10°41.4	21°40.0	50482	14	16°68.0	25°72.1	50622	12	19°38.2	6°18.0	50694	30	14°08.2	10°32.3
50411	10	10°47.1	21°14.0	50483	10	19°21.0	25°35.0	50623	44	19°54.6	6°21.6	50695	18	15°21.4	10°40.3
50412	26	11°17.6	21°39.8	50484	22	23°54.6	25°68.2	50624	12	22°59.9	6°36.2	50696	9	20°26.1	10°77.2
50413	10	11°43.4	21°74.8					50625	26	23°12.0	6°08.4	50697	39	20°63.8	10°39.8
50414	26	17°51.6	21°72.0					50626	28	23°84.2	6°80.1	50698	44	25°41.2	10°30.4
50415	26	18°58.0	21°59.6					50627	22	4°80.2	7°74.2	50699	25	0°04.2	11°08.7

R.A. 10h 36m

Plate 1610: 1929 Feb. 24.

Provisional Constants.

$$\begin{matrix} A & B & C \\ -01736 & +00731 & -1171 \end{matrix}$$

$$\begin{matrix} D & E & F \\ -01751 & -01774 & -2211 \end{matrix}$$

Mag



50700	18	24 11	11 07 50	50772	24	5 53 1	14 24 0	50844	19	14 21 1	17 03 1	50916	29	11 20 2	21 2 1	50988	20	23 46 0	24 58 2
50701	15	24 11	11 31 1	50773	25	7 00 0	11 53 7	50845	23	14 00 0	17 21 6	50917	12	12 1 1	21 10 0	50989	55	23 77 2	24 30 3
50702	22	3 6 0	11 11 7	50774	15	10 7 2	11 01 0	50846	11	15 33 8	17 38 8	50918	10	12 24 0	21 51 7	50990	14	24 05 8	24 08 0
50703	27	5 8 10	11 12 2	50775	12	11 13 5	14 77 2	50847	20	1 7 5 1	17 19 1	50919	22	13 22 0	21 19 0	50991	14	25 48 0	24 56 0
50704	9	7 17 2	11 13 5	50776	24	11 47 8	12 1 7	50848	20	22 7 0	17 52 2	50920	18	14 07 0	21 43 0	50992	11	0 8 9 8	25 11 3
50705	15	8 30 7	11 14 6	50777	17	11 52 2	1 40 2	50849	20	25 0 7	17 09 0	50921	24	15 01 0	21 09 8	50993	20	1 7 40	25 7 47
50706	18	9 10 0	11 17 2	50778	23	11 52 3	11 15 0	50850	15	2 17 4	18 05 9	50922	11	18 37 9	21 8 31	50994	27	1 0 8 6	25 15 8
50707	29	10 30 0	11 25 3	50779	13	12 45 0	11 2 2	50851	15	2 10 0	18 07 3	50923	24	19 09 8	21 05 8	50995	11	6 6 8 4	25 05 8
50708	22	11 20 5	11 25 1	50780	21	13 0 7	14 10 0	50852	13	3 20 2	18 15 2	50924	30	22 53 8	21 00 4	50996	25	7 05 4	25 11 5
50709	44	11 41 4	11 02 0	50781	9	14 50 5	14 00 0	50853	20	3 8 1 8	18 31 8	50925	31	25 02 0	21 03 1	50997	17	11 8 33	25 7 52
50710	18	18 88 0	11 10 7	50782	10	14 52 1	14 10 0	50854	16	4 08 7	18 58 3	50926	10	25 50 0	21 1 7	50998	33	12 15 7	25 8 40
50711	12	20 0 05	11 50 0	50783	22	14 8 2	11 23 5	50855	37	5 07 0	18 02 8	50927	10	25 02 0	21 30 3	50999	10	12 15 8	25 7 33
50712	11	22 4 23	11 8 11	50784	21	18 3 0	14 05 5	50856	30	5 58 0	18 25 0	50928	9	3 6 7 8	22 49 3	51000	11	12 32 2	25 22 2
50713	21	22 40 0	11 14 1	50785	20	18 45 0	14 7 0	50857	17	5 00 8	18 14 7	50929	27	3 80 8	22 0 8 1	51001	22	12 42 4	25 6 10
50714	40	22 50 0	11 24 0	50786	19	21 35 7	14 13 0	50858	15	6 20 1	18 47 6	50930	12	4 40 0	22 48 8	51002	32	12 78 0	25 8 9 4
50715	18	24 5 22	11 17 7	50787	8	22 7 51	14 6 0	50859	13	6 31 0	18 8 71	50931	9	5 5 15	22 4 6 8	51003	17	12 85 2	25 0 8 6
50716	8	24 8 0 4	11 06 0	50788	15	22 77 0	14 13 8	50860	16	8 0 5 8	18 53 8	50932	21	6 2 5 1	22 00 1	51004	19	13 01 1	25 1 3 4
50717	18	0 0 1 0	12 20 7	50789	39	25 10 1	14 10 0	50861	12	8 0 4 8	18 10 0	50933	29	6 8 8 2	22 7 3 4	51005	18	13 10 3	25 1 3 2
50718	19	1 0 0 2	12 20 0	50790	22	25 3 11	14 05 8	50862	10	9 02 4	18 50 4	50934	22	7 9 3 5	22 0 1 4	51006	29	14 32 6	25 8 50
50719	10	4 1 4 4	12 1 12	50791	10	1 00 4	15 50 0	50863	34	9 88 5	18 73 2	50935	13	9 7 2 6	22 7 6 0	51007	41	15 02 4	25 3 0 5
50720	10	4 2 7 6	12 0 51	50792	38	3 4 5 3	15 30 7	50864	12	11 0 6 7	18 11 4	50936	14	10 22 0	22 6 4 2	51008	30	15 38 0	25 6 5 6
50721	8	5 7 0 0	12 7 38	50793	33	3 0 6 8	15 17 0	50865	17	13 4 1 2	18 16 8	50937	19	10 80 8	22 20 4	51009	34	20 05 5	25 7 3 2
50722	10	5 7 1 2	12 50 7	50794	43	5 0 8 4	15 0 6 8	50866	20	15 40 2	18 7 2 2	50938	36	13 28 3	22 90 2	51010	45	21 52 8	25 3 6 3
50723	30	6 00 7	12 8 0 3	50795	26	12 50 4	15 53 3	50867	33	18 12 1	18 02 3	50939	19	14 27 2	22 7 4 7	51011	15	22 20 7	25 4 9 6
50724	38	7 0 1 5	12 4 1 2	50796	15	12 10 0	15 27 3	50868	17	20 6 10	18 08 2	50940	44	14 15 8	22 1 5 5	51012	17	22 32 6	25 10 8
50725	10	7 35 7	12 14 8	50797	38	12 70 5	15 8 0 7	50869	18	20 8 20	18 5 5 8	50941	21	15 5 18	22 6 0 6	51013	33	23 62 4	25 5 0 1
50726	10	8 00 3	12 3 3 2	50798	10	13 26 3	15 1 4 4	50870	12	21 27 2	18 8 10	50942	11	16 5 0 8	22 5 4 8	51014	34	25 9 8 4	25 3 9 8
50727	14	8 0 3 8	12 7 1 4	50799	18	14 0 5 4	15 4 8 0	50871	46	1 35 6	19 7 0 2	50943	19	16 9 0 9	22 1 2 4				
50728	18	13 00 8	12 8 6 8	50800	10	15 9 4 5	15 9 4 0	50872	26	1 8 7 7	19 5 8 1	50944	14	19 35 0	22 6 0 8				
50729	20	13 7 9 2	12 4 3 2	50801	20	17 20 9	15 48 8	50873	9	2 6 2 2	19 10 7	50945	28	19 800	22 8 5 0				
50730	30	15 5 6 1	12 4 0 3	50802	8	18 2 9 4	15 0 6 5	50874	15	3 40 8	19 8 20	50946	14	21 20 4	22 30 1				
50731	8	16 50 2	12 5 10	50803	30	18 50 7	15 00 2	50875	13	3 58 4	19 0 00	50947	14	22 5 7 4	22 7 0 3				
50732	19	17 07 4	12 05 6	50804	9	18 00 4	15 33 8	50876	15	7 2 4 6	19 00 7	50948	12	22 8 9 8	22 9 2 5				
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51077	10	12.892	1.297	51149	15	24.690	5.106	51221	11	20.798	0.668	51293	33	15.414	13.166	51305	14	14.370	17.897
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51470	19	9-284	23-806					51633	15	11-038	9-535	51705	22	5-870	17-886	51777	13	23-205	22-082
51471	11	10-790	23-144					51634*	78	12-045	9-316	51706	11	6-162	17-250	51778	15	23-425	22-546
51472*	51	11-559	23-446					51635	27	18-737	9-530	51707	35	6-870	17-340	51779	18	0-692	23-945
51473	18	13-238	23-004					51636	13	19-135	9-954	51708	15	7-610	17-002	51780	13	1-611	23-251
51474	14	13-873	23-709					51637*	40	20-716	9-995	51709	24	15-637	17-505	51781	21	2-638	23-312
51475	47	20-767	23-656					51638	29	21-086	9-350	51710*	38	18-032	17-264	51782	12	11-304	23-618
51476	13	21-843	23-368					51639	12	1-084	10-306	51711*	44	20-225	17-372	51783	27	15-740	23-284
51477	26	22-562	23-910					51640	40	2-270	10-071	51712	32	23-237	17-188	51784	14	17-552	23-846
51478	17	23-490	23-225					51641*	42	6-313	10-980	51713	20	20-660	17-370	51785	12	19-748	23-380
51479	26	24-514	23-295					51642	24	7-558	10-500	51714	30	22-274	17-255	51786	36	5-160	24-793
51480	33	1-166	24-516					51643	26	8-968	10-824	51715	14	22-716	17-608	51787	11	6-468	24-904
51481	20	1-300	24-448					51644	20	13-306	10-732	51716*	38	2-530	18-248	51788	24	8-742	24-742
51482	24	1-580	24-784					51645	14	14-154	10-004	51717	22	3-628	18-094	51789	12	18-910	24-432
51483*	58	1-879	24-590					51646	22	19-104	10-232	51718	20	3-820	18-556	51790	24	19-880	24-168
51484	18	3-600	24-732					51647	23	21-060	10-420	51719	11	4-291	18-348	51791	14	20-220	24-233
51485	28	7-755	24-060					51648	11	23-634	10-255	51720	12	8-006	18-214	51792	31	22-370	24-030
51486	34	8-056	24-060					51649	28	24-167	10-350	51721	20	12-160	18-162	51793	14	25-525	24-130
51487	15	9-334	24-266					51650	25	0-517	11-474	51722*	55	12-783	18-253	51794	24	1-774	25-286
51488	10	12-040	24-592					51651	22	15-440	11-806	51723*	84	15-010	18-085	51795	36	1-992	25-205
51489	32	12-988	24-859					51652	10	21-265	11-927	51724	12	16-682	18-154	51796	10	4-296	25-494
51490	14	14-002	24-055					51653	10	21-899	11-050	51725	20	19-054	18-860	51797	22	7-750	25-014
51491	12	23-080	24-892					51654	12	22-912	11-420	51726	14	20-200	18-180	51798	12	16-478	25-646
51492	10	24-054	24-894					51655	15	24-111	11-749	51727	12	3-651	18-208	51799	21	16-603	25-502
51493	13	0-344	25-714					51656*	49	24-310	11-805	51728	22	6-530	18-228				
51494	17	0-454	25-322					51657	16	2-800	12-770	51729	16	7-584	18-314				
51495	40	0-755	25-699					51658	35	6-714	12-802	51730	18	17-370	18-118				
51496	17	3-082	25-160					51659	10	7-417	12-420	51731	21	17-424	18-436				
51497	48	4-114	25-566					51660	24	7-924	12-944	51732	10	20-206	18-102				
51498*	48	5-578	25-234					51661*	57	9-501	12-176	51733	14	20-800	18-690				
51499	30	6-542	25-784					51662*	47	13-055	12-793	51734	17	24-630	18-655				
51500	12	8-230	25-551					51663	11	16-410	12-680	51735	15	25-918	18-842				
51501	34	10-584	25-626					51664	38	17-420	13-535	51736	20	26-610	20-944				
51502	23	11-336	25-810	</															



R.A. 11 <sup>h</sup> 0 <sup>m</sup>			
Plate 1616 ; 1920 Mar. 13.			
Provisional Constants.			
A	B	C	
-01752	+00827	-1214	
D	E	F	
-00851	-01716	-1274	
Mag.=16.6-1.05√d			
No.	d	r	q
51801	13	3.158	0.206
51802	18	7.071	0.991
51803	12	8.286	0.263
51804	24	12.914	0.758
51805	22	14.312	0.687
51806	24	15.519	0.220
51807	18	19.104	0.870
51808	29	19.245	0.902
51809	17	19.536	0.182
51810	67	24.186	0.357
51811	20	24.721	0.698
51812	17	3.508	1.542
51813	8	3.877	1.772
51814	26	8.972	1.477
51815	16	11.053	1.502
51816	9	11.118	1.181
51817	15	12.370	1.490
51818	21	12.837	1.542
51819	20	15.886	1.975
51820	34	16.214	1.613
51821	14	16.298	1.472
51822	17	23.572	1.946
51823	17	23.730	1.218
51824	11	0.856	2.216
51825	45	8.325	2.154
51826	16	15.591	2.069
51827	16	16.634	2.544
51828	54	17.347	2.578
51829	10	21.039	2.579
51830	19	23.835	2.513
51831	20	1.233	3.124
51832	35	4.228	3.622
51833	12	6.202	3.102
51834	9	7.782	3.032
51835	42	9.956	3.300
51836	44	20.661	3.970
51837	44	22.510	3.584
51838	20	25.126	3.550
51839	15	4.256	4.398
51840	20	4.922	4.560
51841	12	7.282	4.832
51842	15	8.788	4.116
51843	18	9.659	4.051
51844	12	9.966	4.329
51845	11	11.207	4.568
51846	12	11.284	4.944
51847	32	11.418	4.814
51848	28	12.217	4.358
51849	25	14.144	4.106
51850	20	14.155	4.158
51851	21	22.764	4.113
51852	18	23.224	4.359
51853	20	25.458	4.941
51854	14	9.053	5.928
51855	46	11.400	5.557
51856	31	13.325	5.712
51857	18	14.142	5.077
51858	13	15.885	5.000
51859	18	17.550	5.084
51860	34	22.028	5.201
51861	37	23.702	5.000
51862	45	25.012	5.334
51863	26	25.700	5.030
51864	19	3.150	6.758
51865	15	3.195	6.442
51866	14	4.555	6.288
51867	20	7.055	6.266
51868	10	7.881	6.631
51869	16	8.228	6.545
51870	15	8.981	6.430
51871	22	9.286	6.827
51872	14	9.683	6.171
51873	32	9.766	6.297
51874	8	11.358	6.288
51875	11	13.078	6.661
51876	14	13.907	6.500
51877	20	18.182	6.342
51878	12	18.998	6.813
51879	13	20.227	6.023
51880	20	24.424	6.212
51881	12	5.008	7.242
51882	21	10.773	7.252
51883	67	11.084	7.679
51884	24	13.628	7.212
51885	17	15.355	7.936
51886	17	20.012	7.900
51887	10	20.255	7.802
51888	35	22.023	7.642
51889	13	25.260	7.862
51890	10	25.736	7.848
51891	14	0.866	8.624
51892	10	1.444	8.195
51893	42	2.568	8.364
51894	12	3.442	8.588
51895	10	9.401	8.014
51896	98	17.238	8.105
51897	15	17.342	8.042
51898	22	22.212	8.913
51899	25	25.924	8.444
51900	16	2.670	9.312
51901	38	5.010	9.955
51902	13	6.206	9.053
51903	9	6.422	9.427
51904	12	16.674	9.589
51905	13	18.703	9.522
51906	21	22.887	9.736
51907	10	24.695	9.722
51908	12	1.573	10.582
51909	29	2.109	10.672
51910	11	5.482	10.692
51911	15	13.105	10.082
51912	12	16.067	10.318
51913	18	16.738	10.486
51914	12	17.056	10.256
51915	19	18.918	10.436
51916	28	21.652	10.782
51917	23	24.488	10.640
51918	12	0.872	11.761
51919	22	5.760	11.112
51920	74	6.000	11.118
51921	29	13.452	11.176
51922	25	13.750	11.758
51923	17	13.962	11.930
51924	29	17.610	11.996
51925	18	23.130	11.427
51926	13	24.528	11.500
51927	34	0.610	12.873
51928	19	2.770	12.065
51929	49	2.274	12.122
51930	11	4.466	12.146
51931	51	4.827	12.137
51932	19	5.105	12.260
51933	33	6.516	12.092
51934	13	6.212	12.073
51935	16	13.977	12.056
51936	26	14.516	12.123
51937	19	20.511	12.816
51938	60	21.724	12.228
51939	34	2.850	13.416
51940	13	4.757	13.387
51941	22	8.248	13.969
51942	30	8.770	13.762
51943	38	13.933	13.146
51944	15	14.574	13.628
51945	28	15.987	13.700
51946	40	15.136	13.943
51947	26	15.184	13.837
51948	14	17.003	13.318
51949	52	17.234	13.692
51950	14	19.334	13.956
51951	25	19.782	13.320
51952	30	23.190	13.458
51953	20	24.260	13.212
51954	18	24.432	13.232
51955	25	1.272	14.772
51956	32	6.878	14.445
51957	9	7.358	14.846
51958	11	7.700	14.378
51959	20	9.145	14.812
51960	35	9.364	14.876
51961	17	14.802	14.327
51962	25	15.742	14.921
51963	15	15.930	14.097
51964	22	16.088	14.886
51965	11	21.032	14.553
51966	17	22.543	14.418
51967	23	25.394	14.488
51968	25	2.112	15.618
51969	19	6.048	15.373
51970	19	7.482	15.492
51971	33	9.195	15.628
51972	11	15.521	15.544
51973	39	23.882	15.852
51974	40	25.452	15.992
51975	13	0.328	16.912
51976	66	4.303	16.228
51977	15	4.634	16.107
51978	26	5.069	16.877
51979	66	5.236	16.683
51980	14	14.962	16.592
51981	11	18.308	16.808
51982	13	21.857	16.057
51983	16	23.622	16.197
51984	48	23.870	16.632
51985	32	0.328	17.606
51986	18	0.778	17.952
51987	11	2.447	17.133
51988	9	2.886	17.102
51989	10	9.333	17.488
51990	15	10.029	17.656
51991	13	12.632	17.732
51992	15	15.694	17.844
51993	18	15.980	17.030
51994	23	17.632	17.232
51995	46	19.974	17.414
51996	18	20.632	17.978
51997	15	25.476	17.418
51998	33	7.854	18.799
51999	19	9.681	18.466
52000	13	10.404	18.176
52001	10	10.757	18.672
52002	25	11.951	18.377
52003	25	12.300	18.004
52004	9	13.460	18.638
52005	32	15.766	18.088
52006	21	16.387	18.688
52007	35	16.831	18.941
52008	14	20.278	18.946
52009	45	21.388	18.581
52010	12	23.627	18.681
52011	18	23.902	18.800
52012	12	2.446	19.873
52013	18	2.726	19.990
52014	64	5.032	19.864
52015			



52164	11	10.620	1.160	52236	17	4.301	7.040	52308	12	25.510	12.554	52380	25	14.210	18.262	R.A. 11 <sup>h</sup> 16 <sup>m</sup> Plate 1611 ; 1920 Feb. 24 Provisional Constants. A B C -01746 +00965 -1986 D E F -00998 -01755 -1245 Mag.=16.8-1.05√d
52165	24	13.330	1.100	52237	12	6.640	7.940	52309	36	1.518	13.654	52381	14	14.598	18.914	
52166*	51	17.501	1.934	52238	17	7.540	7.585	52310	18	2.286	13.394	52382	39	18.692	18.741	
52167	17	21.752	1.388	52239	40	8.084	7.970	52311	19	2.460	13.410	52383	12	22.880	18.574	
52168	12	21.978	1.118	52240	25	8.782	7.470	52312	20	4.932	13.008	52384*	46	1.099	19.990	
52169	18	1.390	2.144	52241	17	14.321	7.090	52313	12	6.822	13.090	52385	24	1.462	19.426	
52170	18	1.664	2.704	52242	24	17.149	7.989	52314	25	8.454	13.613	52386	32	1.655	19.620	
52171	32	4.993	2.822	52243	42	20.154	7.666	52315	30	11.960	13.953	52387*	50	1.790	19.000	
52172	35	5.342	2.784	52244	14	3.187	8.025	52316	12	12.968	13.240	52388	23	4.928	19.165	
52173	14	5.730	2.621	52245	31	3.858	8.495	52317	13	15.480	13.439	52389	17	14.392	19.259	
52174	12	8.590	2.018	52246	20	4.850	8.536	52318	20	15.510	13.778	52390	40	17.652	19.688	
52175	28	10.560	2.160	52247	12	7.646	8.402	52319	18	18.232	13.858	52391	16	18.234	19.490	
52176	12	10.728	2.856	52248	13	8.422	8.454	52320	17	20.531	13.630	52392	24	22.115	19.040	
52177	26	12.366	2.818	52249*	56	10.704	8.696	52321	33	21.346	13.246	52393	20	22.475	19.614	
52178	15	13.549	2.219	52250	12	18.430	8.282	52322	28	21.884	13.142	52394	30	25.554	19.808	
52179*	62	21.790	2.280	52251	19	19.150	8.520	52323	18	0.594	14.632	52395	12	3.467	20.376	
52180	11	22.051	2.062	52252	40	22.960	8.910	52324	25	3.444	14.648	52396	27	4.028	20.062	
52181*	51	22.582	2.790	52253	23	23.681	8.810	52325	22	4.120	14.466	52397	23	4.100	20.148	
52182	16	22.742	2.561	52254	25	0.158	9.134	52326	14	4.964	14.206	52398	24	6.634	20.480	
52183	40	23.050	2.438	52255	24	0.850	9.945	52327	12	6.878	14.415	52399	25	7.560	20.355	
52184*	40	0.354	3.801	52256	36	6.026	9.445	52328	22	7.826	14.460	52400	16	10.680	20.870	
52185	20	2.971	3.718	52257	18	7.355	9.793	52329*	80	11.852	14.921	52401	24	12.835	20.530	
52186	15	5.155	3.015	52258	33	7.860	9.028	52330	26	13.300	14.566	52402	24	13.964	20.839	
52187	18	10.778	3.276	52259*	53	10.804	9.476	52331	28	17.190	14.058	52403	23	19.550	20.266	
52188	34	13.145	3.378	52260	58	10.860	9.638	52332	18	17.656	14.634	52404*	40	21.501	20.055	
52189	24	14.831	3.438	52261	14	10.950	9.349	52333	29	17.888	14.524	52405	22	23.946	20.619	
52190	22	16.603	3.581	52262	23	10.970	9.346	52334	20	20.652	14.968	52406	11	4.054	21.340	
52191	11	20.756	3.510	52263	31	11.022	9.534	52335	15	20.764	14.076	52407	24	4.215	21.996	
52192	24	21.282	3.707	52264	18	11.900	9.386	52336	20	25.230	14.022	52408	12	4.934	21.177	
52193	13	23.926	3.300	52265	13	12.350	9.237	52337	30	6.184	15.005	52409	26	4.950	21.516	
52194*	62	25.172	3.144	52266	33	14.235	9.300	52338	13	6.192	15.966	52410	13	7.848	21.740	
52195	20	0.624	4.324	52267	18	17.430	9.479	52339	16	6.774	15.785	52411	25	7.855	21.121	
52196	15	1.086	4.563	52268	23	2.468	10.818	52340	14	8.128	15.614	52412	13	9.424	21.020	
52197	26	8.415	4.265	52269	20	4.220	10.813	52341	32	11.642	15.870	52413	24	10.538	21.801	
52198	20	8.732	4.605	52270	24	5.170	10.338	52342	14	11.936	15.914	52414	26	12.446	21.041	
52199	18	13.602	4.760	52271	23	5.380	10.029	52343	11	12.951	15.300	52415	15	13.252	21.346	
52200*	45	24.208	4.648	52272	31	6.496	10.498	52344	22	15.346	15.726	52416	14	13.982	21.924	
52201	25	24.424	4.840	52273	25	7.010	10.480	52345	25	16.888	15.800	52417	13	14.096	21.785	
52202	26	25.815	4.353	52274*	67	10.309	10.061	52346	20	17.102	15.082	52418*	48	18.815	21.484	
52203	38	25.949	4.825	52275	10	10.778	10.070	52347	20	20.579	15.125	52419	13	19.200	21.430	
52204	36	0.505	5.504	52276	40	10.960	10.965	52348	20	20.692	15.050	52420*	48	20.789	21.212	
52205	42	1.654	5.199	52277	36	11.015	10.525	52349	14	1.706	16.388	52421	16	5.764	22.484	
52206	45	2.888	5.506	52278	10	14.383	10.408	52350*	36	1.955	16.040	52422	24	10.768	22.350	
52207	24	3.330	5.100	52279	12	14.824	10.972	52351*	47	1.966	16.818	52423	24	10.962	22.046	
52208	28	3.571	5.192	52280	17	17.950	10.576	52352*	38	3.527	16.120	52424	20	14.439	22.458	
52209	14	7.710	5.568	52281	40	19.830	10.426	52353*	35	6.402	16.348	52425	25	17.792	22.588	
52210	28	10.548	5.962	52282	15	20.680	10.743	52354	13	6.562	16.040	52426	26	17.932	22.078	
52211	13	11.855	5.777	52283	22	22.122	10.325	52355*	34	6.580	16.326	52427	27	18.806	22.939	
52212	13	12.146	5.490	52284	20	22.990	10.452	52356	16	7.106	16.737	52428	12	19.055	22.362	
52213	16	13.482	5.475	52285	17	23.324	10.320	52357	19	11.080	16.716	52429	44	19.610	22.492	
52214	38	20.694	5.196	52286	18	1.122	11.628	52358*	55	23.370	16.300	52430	22	21.590	22.614	
52215	33	22.064	5.108	52287	14	2.524	11.677	52359	14	24.612	16.358	52431	12	23.154	22.596	
52216	27	24.766	5.074	52288	11	3.669	11.585	52360	15	3.582	17.602	52432	16	24.329	22.820	
52217	25	25.830	5.132	52289	23	8.504	11.802	52361	19	4.682	17.776	52433	22	6.442	23.059	
52218	25	2.320	6.392	52290	28	9.165	11.036	52362	18	5.608	17.159	52434	33	6.550	23.323	
52219	34	5.115	6.247	52291	22	10.507	11.078	52363	19	6.165	17.492	52435	32	6.580	23.556	
52220	13	5.409	6.246	52292	22	12.862	11.980	52364	12	9.758	17.286	52436	22	11.682	23.740	
52221	20	5.422	6.916	52293	24	12.914	11.636	52365	12	12.158	17.875	52437	25	14.300	23.812	
52222	14	6.038	6.545	52294	17	16.332	11.390	52366	32	15.910	17.469	52438	36	18.961	23.378	
52223	11	6.430	6.710	52295	42	16.380	11.939	52367	24	19.315	17.806	52439	37	23.052	23.063	
52224	24	7.890	6.298	52296	19	21.991	11.312	52368	19	20.100	17.318	52440	24	2.512	24.310	
52225	20	8.448	6.590	52297	18	22.674	11.498	52369*	46	21.838	17.774	52441	26	3.348	24.738	
52226	16	8.690	6.136	52298	24	25.710	11.432	52370	19	22.337	17.735	52442	13	6.058	24.299	
52227	36	9.856	6.966	52299	13	4.291	12.174	52371*	42	22.340	17.766	52443	20	23.920	24.225	
52228	22	10.060	6.538	52300	14	6.990	12.812	52372	12	22.390	17.130	52444	16	4.347	25.392	
52229	22	10.804	6.745	52301	30	7.376	12.176	52373*	45	1.513	18.778	52445	53	4.714	25.556	
52230	13	14.532	6.927	52302	20	8.078	12.020	52374*	44	5.090	18.476	52446	40	5.000	25.744	
52231	10	16.606	6.926	52303	20	12.410	12.140	52375	12	8.456	18.338	52447	53	5.774	25.302	
52232	28	16.920	6.868	52304	12	12.751	12.918	52376*	40	9.114						



52506*	49	2.043	4.960	52578	18	5.706	8.198	52650	20	21.062	11.620	52722	14	25.122	16.360	52794	16	24.120	20.332
52507	33	3.653	4.652	52579	18	7.702	8.830	52651	14	24.936	11.080	52723	15	25.706	16.325	52795	19	3.134	21.543
52508	13	7.518	4.192	52580	12	7.985	8.402	52652	20	0.384	12.339	52724	10	5.682	17.090	52796	34	6.107	21.392
52509	13	10.726	4.986	52581	17	8.975	8.828	52653	10	0.804	12.245	52725	18	6.137	17.084	52797	23	6.760	21.622
52510	8	11.106	4.478	52582	29	9.210	8.375	52654	20	1.998	12.760	52726	23	6.672	17.446	52798	13	9.383	21.144
52511	24	11.480	4.014	52583	23	9.569	8.998	52655	8	3.166	12.396	52727	14	6.782	17.610	52799	36	10.815	21.744
52512	18	12.427	4.858	52584	20	10.776	8.697	52656	19	3.412	12.856	52728	18	7.080	17.955	52800	43	11.437	21.752
52513	40	13.807	4.232	52585	8	12.722	8.867	52657	12	6.426	12.408	52729	13	7.983	17.560	52801	14	11.906	21.787
52514	23	14.877	4.862	52586	21	15.120	8.494	52658	29	9.585	12.947	52730	17	8.802	17.757	52802	16	19.502	21.245
52515	32	15.158	4.199	52587	21	16.756	8.756	52659	14	9.620	12.532	52731	24	10.704	17.780	52803	10	19.756	21.726
52516	19	16.053	4.946	52588	18	17.303	8.040	52660	17	11.500	12.633	52732	15	13.172	17.078	52804	14	1.133	22.916
52517	17	18.346	4.107	52589	11	18.468	8.655	52661	29	14.100	12.707	52733	17	16.792	17.738	52805	11	5.254	22.252
52518	22	21.516	4.786	52590	21	18.638	8.394	52662	18	14.432	12.817	52734	13	17.718	17.140	52806	31	6.040	22.752
52519	12	24.495	4.618	52591	22	21.054	8.264	52663	11	17.274	12.663	52735	15	19.220	17.878	52807	13	7.374	22.386
52520	31	2.266	5.154	52592	10	21.960	8.582	52664	14	17.742	12.178	52736	31	20.952	17.804	52808	11	7.631	22.094
52521	32	2.610	5.384	52593	37	22.113	8.634	52665	13	20.157	12.610	52737	32	22.572	17.802	52809	14	8.566	22.582
52522	8	3.380	5.786	52594	22	22.727	8.043	52666	20	22.068	12.194	52738	39	23.260	17.985	52810	29	9.146	22.797
52523	30	3.676	5.434	52595	11	24.426	8.970	52667	26	24.044	12.140	52739	13	24.632	17.774	52811	12	9.834	22.648
52524	43	3.788	5.125	52596	18	24.633	8.454	52668	10	0.349	13.007	52740	10	24.989	17.742	52812	39	15.254	22.355
52525	10	5.582	5.252	52597*	62	25.143	8.661	52669	17	4.667	13.100	52741	18	0.276	18.062	52813	8	15.936	22.446
52526*	64	9.358	5.892	52598	41	0.830	9.232	52670	13	6.528	13.873	52742*	49	0.278	18.093	52814	24	17.180	22.644
52527	41	9.678	5.082	52599	24	1.554	9.129	52671	30	8.059	13.792	52743	14	0.826	18.896	52815	13	18.133	22.592
52528	18	10.552	5.371	52600	8	2.917	9.856	52672	20	11.260	13.158	52744	13	2.193	18.128	52816	27	21.206	22.132
52529	15	13.248	5.408	52601	20	4.878	9.738	52673	14	12.318	13.248	52745	39	4.302	18.882	52817	14	21.757	22.596
52530	9	14.342	5.817	52602	19	6.755	9.421	52674	46	15.598	13.378	52746	8	4.642	18.919	52818	24	23.749	22.554
52531	35	14.753	5.880	52603	20	6.911	9.246	52675	21	15.838	13.748	52747	32	6.770	18.654	52819	39	1.030	23.382
52532	19	14.795	5.417	52604	14	8.416	9.206	52676	10	18.867	13.102	52748	20	10.012	18.822	52820	20	2.310	23.129
52533	24	15.826	5.838	52605	9	8.624	9.552	52677	18	19.140	13.578	52749	16	10.776	18.894	52821	14	3.984	23.662
52534	17	15.910	5.874	52606	9	11.225	9.710	52678	14	20.884	13.522	52750	19	17.174	18.279	52822*	68	4.526	23.064
52535	33	15.918	5.082	52607	17	12.692	9.584	52679	26	20.888	13.915	52751*	52	17.608	18.862	52823	23	5.051	23.243
52536	12	20.597	5.054	52608	19	14.175	9.968	52680	11	23.556	13.902	52752	18	18.118	18.102	52824	21	5.820	23.398
52537	18	21.104	5.051	52609	24	14.656	9.988	52681	20	25.850	13.060	52753	17	18.930	18.299	52825	14	9.198	23.793
52538	25	21.644	5.768	52610	14	15.918	9.497	52682	20	25.868	13.115	52754	24	19.777	18.466	52826	24	12.127	23.550
52539	12	24.593	5.462	52611	14	16.365	9.388	52683	26	3.142	14.328	52755	17	19.950	18.634	52827	41	14.086	23.848
52540	25	25.036	5.839	52612	19	16.951	9.491	52684	39	4.106	14.664	52756	14	20.374	18.122	52828	25	14.783	23.679
52541	28	25.661	5.795	52613	10	17.407	9.208	52685	30	4.694	14.485	52757*	58	22.177	18.812	52829	34	15.434	23.754
52542	13	2.126	6.344	52614	20	17.859	9.500	52686	39	4.882	14.496	52758*	29	24.367	18.894	52830	18	15.448	23.314
52543	29	2.212	6.959	52615*	69	20.614	9.098	52687	31	7.267	14.328	52759	23	0.061	19.367	52831	15	17.098	23.422
52544	34	7.524	6.392	52616	24	21.668	9.583	52688	9	7.326	14.312	52760	23	0.428	19.940	52832	15	17.472	23.180
52545	20	7.924	6.546	52617*	54	24.558	9.018	52689	14	7.616	14.773	52761	10	1.337	19.628	52833	17	19.356	23.807
52546	10	8.564	6.294	52618	24	0.004	10.653	52690	12	9.908	14.148	52762*	65	4.100	19.698	52834	29	1.912	24.538
52547	30	9.764	6.790	52619	23	0.876	10.772	52691	13	11.496	14.878	52763*	40	6.512	19.633	52835	29	5.804	24.464
52548	14	11.422	6.430	52620	21	1.207	10.640	52692	27	13.086	14.940	52764*	48	10.260	19.372	52836	9	6.865	24.040
52549	18	12.500	6.063	52621	18	2.902	10.892	52693	37	13.766	14.555	52765	15	10.818	19.096	52837	20	8.380	24.936
52550	14	12.674	6.664	52622	20	4.656	10.926	52694	17	16.106	14.129	52766	15	12.748	19.456	52838	12	11.949	24.345
52551	20	15.821	6.898	52623	21	6.312	10.431	52695	14	20.157	14.868	52767	11	12.974	19.054	52839	20	12.841	24.465
52552	31	18.520	6.658	52624	11	12.550	10.860	52696	23	20.378	14.872	52768	9	13.502	19.328	52840	16	13.269	24.577
52553	20	19.807	6.914	52625	20	15.299	10.802	52697	33	22.876	14.462	52769	10	13.668	19.238	52841	10	14.206	24.462
52554	30	20.248	6.934	52626	25	15.624	10.186	52698	39	25.550	14.085	52770	12	14.882	19.293	52842	10	14.770	24.764
52555	29	20.795	6.538	52627	10	15.865	10.302	52699	12	8.024	15.740	52771*	103	14.971	19.077	52843	10	15.698	24.438
52556	25	25.052	6.806	52628	11	18.461	10.195	52700	9	8.912	15.669	52772	38	16.350	19.593	52844	14	17.885	24.670
52557	18	25.880	6.360	52629	29	18.560	10.512	52701	33	11.993	15.212	52773	8	16.709	19.388	52845	20	17.962	24.098
52558	31	1.424	7.145	52630	38	19.188	10.238	52702	14	14.983	15.663	52774	23	17.339	19.988	52846	9	20.393	24.315
52559	14	2.525	7.680	52631	15	21.372	10.546	52703	15	17.316	15.448	52775	17	17.774	19.062	52847	8	21.232	24.880
52560	36	4.558	7.047	52632	10	22.177	10.752	52704	34	19.428	15.684	52776	28	22.260	19.488	52848	10	21.750	24.594
52561	33	5.457	7.085	52633	36	24.043	10.838	52705	16	20.384	15.312	52777	36	25.025	19.516	52849	21	22.102	24.490
52562	9	5.963	7.197	52634	10	24.446	10.092	52706	20	21.214	15.101	52778	32	25.158	19.079	52850	11	22.674	24.821
52563	11	6.602	7.688	52635	19	0.566	11.820	52707	10	21.293	15.394	52779	26	1.906	20.932	52851	18	24.062	24.100
52564	39	7.776	7.608	52636	33	3.598	11.735	52708	18	23.658	15.360	52780	39	3.506	20.110	52852	28	25.915	24.176
52565	21	8.269	7.292	52637	18	4.030	11.702	52709*	58	1.294	16.619	52781	14	7.702	20.441	52853	26	2.446	25.668
52566	15	10.677	7.556	52638	16	4.176	11.526	52710	21	2.541	16.667	52782*	54	9.262	20.558	52854	31	6.370	25.225
52567	16	11.865	7.668	52639	9	6.420	11.442	52711*	53	9.452	16.738	52783	10	10.344	20.183	52855	9	9.272	25.842
52568	30	12.488	7.584	52640	13	6.608	11.971												



R.A. 11<sup>h</sup> 24<sup>m</sup>  
Plate 1606; 1920 Feb. 23.  
Provisional Constants.  
A B C  
-01754 +00998 +0593  
D E F  
-01010 -01751 -3342  
Mag.=16.7-1.05√d

No.	l	x	y	No.	l	x	y	No.	l	x	y	No.	l	x	y	No.	l	x	y	No.	l	x	y
52901*	100	4.664	0.998	52901	17	21.330	4.188	53028	9	14.019	9.490	53100	12	5.758	13.858	53172	44	23.313	17.485	52956	17	21.330	4.188
52902	10	5.502	0.620	52902	14	2.746	5.457	53029*	76	14.950	9.826	53101	10	6.038	13.260	53173*	62	0.493	18.838	52957	14	2.746	5.457
52903	21	6.824	0.102	52903	30	3.192	5.828	53030	10	16.414	9.665	53102	17	7.435	13.346	53174	34	2.688	18.892	52958	30	3.192	5.828
52904	34	16.210	0.419	52904	34	3.818	5.776	53031	17	16.416	9.317	53103	18	8.218	13.486	53175	18	8.784	18.767	52959	34	3.818	5.776
52905	13	18.367	0.577	52905	22	5.368	5.208	53032	28	16.846	9.266	53104	10	9.782	13.944	53176	10	10.102	18.340	52960	22	5.368	5.208
52906	34	24.976	0.912	52906	11	6.886	5.009	53033	10	17.207	9.903	53105	14	13.194	13.970	53177	17	10.612	18.514	52961	11	6.886	5.009
52907*	70	25.589	0.372	52907	15	7.032	5.162	53034	15	20.323	9.348	53106	21	15.077	13.110	53178	13	10.766	18.352	52962	15	7.032	5.162
52908	24	3.074	1.828	52908	14	10.754	5.622	53035	20	21.396	9.750	53107	10	15.480	13.530	53179	9	11.348	18.141	52963	14	10.754	5.622
52909	32	5.750	1.441	52909	10	13.080	5.161	53036	33	2.260	10.840	53108	38	16.168	13.390	53180	10	13.854	18.860	52964	10	13.080	5.161
52910*	45	8.440	1.080	52910	39	13.756	5.484	53037	10	2.656	10.088	53109	12	16.951	13.735	53181	22	14.004	18.394	52965	39	13.756	5.484
52911	11	8.882	1.148	52911	22	15.851	5.046	53038	15	4.818	10.294	53110	16	18.506	13.960	53182	35	14.802	18.354	52966	22	15.851	5.046
52912	11	9.783	1.882	52912	61	19.728	5.496	53039*	73	5.416	10.644	53111	30	20.686	13.272	53183	36	19.196	18.676	52967	61	19.728	5.496
52913	33	10.610	1.278	52913	12	23.434	5.530	53040	22	5.482	10.431	53112	27	20.978	13.631	53184	33	0.590	19.512	52968	12	23.434	5.530
52914*	44	17.526	1.865	52914	31	3.221	6.796	53041	23	5.916	10.074	53113	26	22.556	13.220	53185	40	3.356	19.506	52969	31	3.221	6.796
52915	9	21.275	1.148	52915	29	4.045	6.339	53042	14	6.265	10.304	53114	30	22.840	13.058	53186	35	3.484	19.069	52970	29	4.045	6.339
52916	41	21.400	1.404	52916	11	4.145	6.123	53043*	120	6.273	10.113	53115	12	23.458	13.762	53187	41	4.436	19.336	52971	11	4.145	6.123
52917	9	23.322	1.850	52917	34	7.552	6.125	53044	22	7.166	10.021	53116	15	23.612	13.484	53188	27	5.352	19.758	52972	34	7.552	6.125
52918	14	24.267	1.042	52918	43	8.389	6.636	53045	11	14.094	10.086	53117	36	1.141	14.479	53189	37	5.384	19.129	52973*	43	8.389	6.636
52919	21	24.466	1.416	52919	22	11.506	6.970	53046	34	14.660	10.133	53118	40	3.809	14.069	53190	19	5.564	19.238	52974	22	11.506	6.970
52920	29	25.914	1.656	52920	12	12.290	6.681	53047	18	15.165	10.402	53119	28	4.436	14.442	53191	10	6.530	19.129	52975	12	12.290	6.681
52921*	41	0.629	2.155	52921	20	14.288	6.958	53048	10	15.671	10.858	53120	30	6.464	14.198	53192	10	6.635	19.538	52976	20	14.288	6.958
52922	11	1.720	2.315	52922	12	14.473	6.174	53049	11	15.680	10.758	53121	40	8.040	14.489	53193	12	9.320	19.950	52977	12	14.473	6.174
52923	40	2.304	2.940	52923	31	14.662	6.259	53050	16	16.084	10.978	53122	23	13.990	14.884	53194	36	14.655	19.318	52978	31	14.662	6.259
52924	34	9.010	2.094	52924	11	17.060	6.064	53051*	44	17.739	10.979	53123	14	14.634	14.913	53195	31	16.130	19.590	52979	11	17.060	6.064
52925	15	9.322	2.228	52925	30	17.704	6.436	53052	42	17.739	10.979	53124	18	17.788	14.648	53196	31	18.426	19.160	52980	30	17.704	6.436
52926	41	20.424	2.730	52926	13	17.942	6.280	53053	29	20.454	10.601	53125	31	17.848	14.652	53197	15	23.340	19.480	52981	13	17.942	6.280
52927	22	21.260	2.756	52927	18	20.539	6.153	53054	12	21.079	10.376	53126	33	19.087	14.086	53198	15	2.463	20.331	52982	18	20.539	6.153
52928	40	24.590	2.940	52928	13	20.589	6.862	53055	25	22.515	10.551	53127	40	25.580	14.503	53199	10	4.429	20.525	52983	13	20.589	6.862
52929	22	24.848	2.061	52929	28	20.888	6.565	53056	10	22.580	10.133	53128	21	1.935	15.366	53200	23	6.090	20.305	52984	28	20.888	6.565
52930	40	3.232	3.118	52930	31	24.208	6.568	53057	17	23.932	10.700	53129	13	4.165	15.700	53201	24	6.480	20.666	52985	31	24.208	6.568
52931	28	3.838	3.210	52931	27	25.042	6.836	53058	34	24.112	10.492	53130	24	4.920	15.880	53202	10	7.182	20.079	52986	27	25.042	6.836
52932	9	4.216	3.082	52932	45	1.469	7.018	53059	31	24.440	10.404	53131	12	7.050	15.266	53203*	52	7.840	20.264	52987*	45	1.469	7.018
52933	35	7.470	3.150	52933	9	2.538	7.254	53060	31	25.486	10.432	53132	23	7.099	15.831	53204	10	14.236	20.438	52988	9	2.538	7.254
52934*	49	8.121	3.399	52934	35	5.090	7.284	53061	14	3.158	11.070	53133	12	7.808	15.554	53205	33	15.685	20.922	52989	35	5.090	7.284
52935	13	8.964	3.818	52935	14	5.284	7.124	53062	10	3.923	11.372	53134	24	12.971	15.362	53206	15	17.031	20.598	52990	14	5.284	7.124
52936	10	13.660	3.705	52936	10	6.258	7.491	53063	25	4.584	11.886	53135	14	19.647	15.550	53207	15	18.310	20.110	52991	10	6.258	7.491
52937	34	14.636	3.484	52937	15	7.086	7.326	53064	22	7.748	11.626	53136	9	19.909	15.950	53208	37	18.881	20.761	52992	15	7.086	7.326
52938	36	14.718	3.068	52938	23	8.641	7.738	53065	35	9.454	11.679	53137	38	19.949	15.131	53209	10	19.018	20.692	52993	23	8.641	7.738
52939	37	15.498	3.590	52939	44	9.396	7.775	53066	34	12.009	11.835	53138	33	23.532	15.636	53210	15	22.011	20.664	52994*	44	9.396	7.775
52940*	100	20.604	3.119	52940	12	9.800	7.637	53067	10	12.218	11.522	53139	14	23.744	15.940	53211	16	23.132	20.455	52995	12	9.800	7.637
52941	19	20.852	3.966	52941	35	9.820	7.534	53068	35	12.770	11.028	53140	25	23.872	15.359	53212	10	23.949	20.460	52996	35	9.820	7.534
52942	39	22.609	3.012	52942	9	12.597	7.070	53069	15	13.796	11.620	53141	20	24.238	15.150	53213	42	24.490	20.409	52997	9	12.597	7.070
52943	37	22.620	3.006	52943	24	18.656	7.986	53070	11	15.306	11.148	53142	11	25.906	15.504	53214	18	25.514	20.774	52998	24	18.656	7.986
52944	34	22.866	3.891	52944	15	18.709	7.668	53071	31	16.610	11.959	53143	47	26.000	15.349	53215	29	4.886	21.441	52999	15	18.709	7.668
52945	12	2.639	4.614	52945	56	19.134	7.272	53072	20	18.812	11.084	53144	33	0.572	16.206	53216	12	9.054	21.532	53000*	56	19.134	7.272
52946	10	4.549	4.914	52946	15	21.481	7.852	53073	38	18.820	11.072	53145	34	0.594	16.843	53217	34	9.360	21.929	53001	15	21.481	7.852
52947	24	5.365	4.640	52947	11	22.080	7.211	53074	16	20.269	11.388	53146	10	1.916	16.714	53218	30	9.760	21.410	53002	11	22.080	7.211
52948	31	6.648	4.704	52948	15	23.491	7.162	53075	12	22.072	11.500	53147	40	2.122	16.349	53219	21	11.156	21.200	53003	15	23.491	7.162
52949	11	9.662	4.470	52949	34	0.302	8.662	53076	10	22.154	11.080	53148	31	2.380	16.660	53220	12	14.192	21.048	53004	34	0.302	8.662
52950	17	11.190	4.950	52950	25	0.912	8.061	53077	16	22.670	11.572	53149	18	3.412	16.348	53221	12	15.888	21.408	53005	25	0.912	8.061
52951	24	13.320	4.971	52951	22	2.822	8.450	53078	22	22.972	11.856	53150	23	5.147	16.828	53222	32	18.916	21.971	53006	22	2.822	8.450
52952	10	14.734	4.746	52952	63	3.326	8.651	53079	33	2.280	12.141	53151	24	7.455	16.884	53223	35	19.278	21.970	53007*	63	3.326	8.651
52953	21	17.896	4.077	52953	24	4.222</																	



53244	40	4.963	23.421	53305	15	6.795	0.194	53377	26	17.316	4.616	53449	15	0.186	9.154	53521	38	10.429	13.344
53245	18	6.760	23.706	53306*	60	8.436	0.488	53378	15	22.624	4.888	53450	26	7.975	9.736	53522	16	10.519	13.815
53246	25	7.396	23.223	53307*	52	11.776	0.625	53379	18	23.224	4.664	53451	14	9.167	9.860	53523	12	11.166	13.244
53247	10	7.532	23.812	53308	20	13.014	0.924	53380*	53	25.126	4.416	53452	19	12.188	9.186	53524	37	12.818	13.065
53248	18	8.432	23.870	53309	12	13.560	0.599	53381	22	5.265	5.840	53453	17	12.410	9.026	53525	16	13.931	13.852
53249	18	13.616	23.276	53310	26	16.584	0.586	53382	12	6.738	5.616	53454	14	17.612	9.384	53526	12	14.186	13.558
53250	23	14.518	23.848	53311	12	16.828	0.868	53383	13	9.082	5.780	53455	15	18.521	9.960	53527	19	14.716	13.802
53251	24	15.741	23.826	53312*	57	17.319	0.241	53384	16	10.890	5.475	53456	18	20.756	9.642	53528	19	16.840	13.622
53252	34	16.150	23.910	53313	18	20.901	0.476	53385*	56	12.506	5.806	53457	37	20.923	9.104	53529	18	17.907	13.580
53253	35	16.718	23.372	53314*	54	21.815	0.434	53386	13	12.682	5.394	53458	28	23.452	9.356	53530	13	1.340	14.386
53254	10	17.359	23.658	53315	13	25.182	0.483	53387	36	12.716	5.044	53459	23	24.342	9.438	53531	15	1.494	14.106
53255	38	19.385	23.101	53316	16	2.012	1.656	53388	26	13.841	5.326	53460	12	0.424	10.764	53532	16	7.586	14.664
53256	26	0.502	24.516	53317	40	2.716	1.516	53389	16	16.180	5.872	53461	12	0.704	10.774	53533*	42	8.711	14.054
53257	10	1.080	24.842	53318	42	3.998	1.836	53390	23	16.333	5.244	53462	11	4.494	10.576	53534	16	9.594	14.404
53258	22	2.454	24.104	53319	24	7.472	1.998	53391	24	18.550	5.160	53463	16	4.824	10.698	53535	14	10.096	14.866
53259	37	4.308	24.157	53320*	72	7.670	1.040	53392	38	23.547	5.384	53464	16	6.760	10.966	53536	16	13.577	14.746
53260	38	4.909	24.177	53321	48	7.956	1.142	53393	16	1.226	6.154	53465	20	9.490	10.944	53537	17	16.349	14.746
53261	11	10.028	24.868	53322	14	9.886	1.775	53394	17	4.822	6.259	53466	11	13.461	10.285	53538	21	16.531	14.543
53262	22	11.092	24.645	53323	37	12.484	1.604	53395	32	7.984	6.514	53467	16	13.638	10.755	53539	13	17.039	14.724
53263	10	12.852	24.658	53324	15	14.367	1.881	53396	21	11.434	6.558	53468	17	16.324	10.836	53540	24	19.040	14.094
53264	39	14.901	24.309	53325	13	15.456	1.828	53397	17	11.976	6.475	53469	13	19.334	10.214	53541*	39	21.114	14.384
53265	20	15.648	24.651	53326	44	19.316	1.904	53398	15	12.276	6.906	53470	18	20.530	10.354	53542	12	21.196	14.600
53266	10	16.079	24.286	53327	37	21.996	1.582	53399	20	16.010	6.778	53471	14	21.498	10.506	53543	18	21.736	14.758
53267	32	16.776	24.026	53328	26	2.213	2.026	53400	42	17.679	6.820	53472	37	23.924	10.591	53544	20	1.774	15.975
53268	45	18.270	24.078	53329	24	2.600	2.666	53401	14	18.042	6.065	53473	23	24.902	10.666	53545	18	2.136	15.762
53269	34	19.304	24.323	53330	26	3.664	2.249	53402	42	18.195	6.045	53474	19	0.360	11.184	53546	36	3.470	15.102
53270	31	20.463	24.370	53331	28	5.265	2.814	53403	17	18.580	6.438	53475	14	1.307	11.321	53547*	54	3.894	15.939
53271	33	23.035	24.830	53332	17	8.432	2.435	53404	22	18.750	6.405	53476	16	1.781	11.316	53548	12	3.907	15.125
53272	13	24.824	24.072	53333	16	9.182	2.356	53405	12	20.636	6.686	53477	23	1.956	11.106	53549	17	4.920	15.150
53273	70	5.592	25.778	53334	12	10.394	2.581	53406	14	21.650	6.916	53478	26	2.285	11.014	53550	42	6.142	15.490
53274	16	5.822	25.818	53335*	44	10.624	2.162	53407	29	23.788	6.986	53479	23	3.330	11.030	53551	22	7.520	15.858
53275	37	6.518	25.496	53336	23	11.356	2.210	53408	28	25.119	6.782	53480	14	5.766	11.281	53552	23	7.700	15.058
53276	37	8.106	25.956	53337	26	13.850	2.874	53409	13	25.418	6.235	53481	13	5.841	11.078	53553	12	8.137	15.777
53277	31	9.449	25.386	53338*	52	15.832	2.783	53410	18	1.300	7.786	53482	19	7.124	11.364	53554	18	10.668	15.412
53278	27	11.245	25.124	53339	23	19.186	2.754	53411	26	2.006	7.182	53483	24	8.076	11.426	53555	12	12.637	15.434
53279	22	12.108	25.710	53340	35	19.344	2.481	53412	21	2.846	7.438	53484	15	8.510	11.758	53556	24	13.128	15.466
53280	32	12.693	25.143	53341*	48	21.156	2.946	53413	30	6.378	7.814	53485	14	9.056	11.164	53557	15	13.566	15.752
53281	10	13.531	25.180	53342	10	21.416	2.614	53414	20	6.924	7.134	53486*	45	13.756	11.662	53558	22	14.452	15.391
53282	13	15.398	25.170	53343	26	21.661	2.654	53415	23	8.031	7.686	53487	12	14.700	11.381	53559	18	14.830	15.576
53283	10	16.426	25.376	53344	40	22.900	2.006	53416	21	9.578	7.569	53488	12	15.778	11.730	53560	18	15.500	15.244
53284	34	17.894	25.412	53345	16	23.996	2.668	53417	15	10.862	7.695	53489	20	16.286	11.156	53561	22	16.013	15.454
53285	13	18.689	25.174	53346	10	0.054	3.669	53418	28	16.638	7.537	53490	20	16.353	11.364	53562	14	16.154	15.656
53286	12	19.126	25.602	53347	39	0.370	3.642	53419	18	16.871	7.125	53491	14	16.364	11.886	53563*	38	16.946	15.346
53287	21	20.646	25.545	53348	37	0.384	3.636	53420	12	17.624	7.324	53492	13	17.794	11.231	53564	20	19.229	15.886
53288	28	22.337	25.381	53349	43	2.350	3.548	53421	21	18.896	7.831	53493	36	18.860	11.874	53565	16	19.473	15.518
				53350	15	8.008	3.518	53422	24	19.095	7.778	53494	12	24.300	11.706	53566	16	23.124	15.180
				53351	38	8.770	3.490	53423	16	19.523	7.196	53495	24	24.419	11.642	53567	25	1.434	16.258
				53352	12	10.098	3.050	53424	37	19.804	7.600	53496	16	0.526	12.204	53568	14	1.650	16.557
				53353	44	12.062	3.644	53425	42	20.196	7.464	53497	19	0.833	12.484	53569	15	3.806	16.097
				53354	19	12.389	3.984	53426	23	20.445	7.459	53498	13	1.310	12.476	53570	38	7.882	16.892
				53355	19	13.329	3.454	53427	38	22.950	7.150	53499	11	1.810	12.144	53571	18	10.072	16.686
				53356	14	13.350	3.565	53428	39	25.263	7.550	53500	16	5.300	12.487	53572	17	11.915	16.004
				53357	20	16.352	3.135	53429	30	5.406	8.116	53501	22	5.844	12.262	53573	21	12.194	16.494
				53															



53593	16	7-140	17-124	53665	38	4-948	21-484	53737	28	4-224	25-992	53831	27	17-744	3-986	53903	15	10-676	11-334
53594	30	8-576	17-726	53666	13	7-436	21-456	53738	21	5-646	25-662	53832	23	22-336	3-198	53904	78	13-874	11-523
53595	24	12-151	17-292	53667	10	7-585	21-714	53739	19	6-626	25-721	53833	11	23-854	3-334	53905	38	16-258	11-655
53596	22	12-184	17-271	53668	12	8-835	21-575	53740	25	9-162	25-002	53834	10	1-054	4-568	53906	19	17-584	11-625
53597	14	12-860	17-106	53669	44	9-936	21-776	53741	17	10-238	25-000	53835	44	2-950	4-310	53907	64	17-602	11-534
53598	9	13-790	17-084	53670	22	12-176	21-740	53742	10	12-134	25-460	53836	11	4-724	4-451	53908	36	18-164	11-698
53599	15	14-246	17-442	53671	17	14-537	21-530	53743	44	12-668	25-679	53837	34	8-468	4-075	53909	13	24-088	11-456
53600	17	15-378	17-716	53672	22	15-130	21-932	53744	14	13-259	25-876	53838	16	10-280	4-568	53910	12	0-442	12-884
53601	15	15-602	17-797	53673	32	17-648	21-214	53745	16	15-570	25-716	53839	30	14-292	4-092	53911	39	8-273	12-320
53602	38	15-740	17-906	53674	12	19-884	21-076	53746	15	16-210	25-120	53840	20	19-144	4-644	53912	31	8-462	12-482
53603	14	16-025	17-680	53675	14	21-406	21-118	53747	14	16-746	25-968	53841	23	23-924	4-169	53913	20	10-966	12-302
53604	20	17-141	17-754	53676	12	22-484	21-209	53748	13	20-606	25-244	53842	31	1-380	5-288	53914	40	12-243	12-718
53605	20	18-499	17-964	53677	55	22-494	21-865	53749	23	20-719	25-534	53843	10	4-396	5-295	53915	21	13-940	12-702
53606	12	18-948	17-084	53678	18	23-430	21-024	53750	17	20-972	25-904	53844	12	5-707	5-972	53916	37	22-688	12-654
53607	9	19-314	17-996	53679	23	24-600	21-125	53751	26	21-392	25-926	53845	10	8-789	5-938	53917	24	25-048	12-958
53608	15	19-584	17-134	53680	18	2-328	22-438	53752	30	22-518	25-784	53846	9	11-770	5-537	53918	18	11-920	13-215
53609	22	23-452	17-096	53681	26	2-479	22-099	53753	13	23-329	25-926	53847	21	12-908	5-555	53919	34	12-414	13-268
53610	17	0-488	18-268	53682	10	5-078	22-248	53754	16	24-313	25-306	53848	33	13-244	5-316	53920	43	13-690	13-142
53611	38	1-234	18-106	53683	16	6-830	22-014					53849	9	14-778	5-380	53921	21	20-592	13-305
53612	14	6-666	18-786	53684	14	11-469	22-936					53850	8	20-144	5-734	53922	19	21-525	13-899
53613	26	6-936	18-229	53685	11	16-194	22-596					53851	34	25-318	5-382	53923	12	22-137	13-445
53614	29	7-436	18-878	53686	16	16-264	22-908					53852	24	1-634	6-886	53924	14	22-662	13-612
53615	11	8-340	18-558	53687	32	16-414	22-316					53853	21	2-964	6-672	53925	9	23-108	13-414
53616	16	9-062	18-674	53688	19	17-100	22-450					53854	11	3-261	6-123	53926	13	5-034	14-526
53617	11	10-685	18-202	53689	14	17-597	22-926					53855	9	8-102	6-672	53927	23	7-763	14-700
53618	19	10-939	18-186	53690	10	18-207	22-288					53856	32	8-620	6-116	53928	19	12-203	14-183
53619	37	12-295	18-144	53691	15	20-808	22-175					53857	82	9-250	6-418	53929	22	12-387	14-218
53620	10	13-287	18-520	53692	22	22-377	22-074					53858	19	9-866	6-292	53930	8	13-487	14-530
53621	16	13-761	18-086	53693	17	22-408	22-252					53859	27	10-071	6-467	53931	14	16-326	14-855
53622	15	15-117	18-094	53694	37	22-722	22-564					53860	13	11-506	6-488	53932	14	20-980	14-359
53623	12	18-492	18-936	53695	18	25-072	22-884					53861	20	15-076	6-632	53933	19	23-122	14-830
53624	10	21-240	18-824	53696	13	25-468	22-894					53862	28	20-903	6-604	53934	16	25-422	14-107
53625	15	21-963	18-486	53697	20	1-740	23-524					53863	16	21-214	6-287	53935	21	2-570	15-905
53626	17	23-710	18-248	53698	19	2-404	23-104					53864	14	21-961	6-404	53936	21	4-094	15-402
53627	16	4-640	19-395	53699	64	3-958	23-444					53865	19	23-380	6-688	53937	15	4-626	15-731
53628	11	5-074	19-658	53700	37	5-412	23-504					53866	31	0-796	7-057	53938	38	7-196	15-287
53629	22	5-696	19-634	53701	14	5-516	23-024					53867	38	3-110	7-442	53939	32	8-870	15-917
53630	19	6-006	19-834	53702	12	6-262	23-144					53868	16	18-387	7-977	53940	15	9-097	15-367
53631	10	7-640	19-146	53703	31	6-644	23-237					53869	14	18-394	7-966	53941	11	20-335	15-610
53632	17	7-907	19-724	53704	13	6-748	23-976					53870	22	18-766	7-464	53942	12	22-648	15-368
53633	20	9-628	19-326	53705	52	10-467	23-664					53871	13	18-880	7-290	53943	39	23-307	15-845
53634	11	15-358	19-344	53706	12	10-608	23-498					53872	17	23-320	7-498	53944	13	25-970	15-226
53635	18	15-977	19-748	53707	24	10-880	23-259					53873	20	25-730	7-212	53945	18	1-372	16-998
53636	21	16-066	19-308	53708	12	11-202	23-986					53874	40	1-391	8-490	53946	17	2-203	16-269
53637	15	16-462	19-316	53709	16	12-706	23-474					53875	13	1-803	8-697	53947	10	3-395	16-734
53638	11	17-206	19-014	53710	28	17-474	23-644					53876	38	1-892	8-018	53948	47	5-274	16-052
53639	17	19-744	19-316	53711	39	17-938	23-441					53877	26	2-462	8-858	53949	32	5-572	16-504
53640	24	20-786	19-661	53712	28	17-978	23-238					53878	16	5-607	8-137	53950	12	5-672	16-726
53641	18	20-974	19-192	53713	22	18-080	23-723					53879	22	8-237	8-716	53951	8	6-317	16-936
53642	39	21-767	19-134	53714	22	18-856	23-442					53880	10	19-370	8-918	53952	31	15-910	16-120
53643	25	21-889	19-862	53715	14	18-861	23-870					53881	26	1-315	9-260	53953	19	16-179	16-572
53644	15	24-098	19-218	53716	18	19-930	23-246					53882	14	2-206	9-336	53954	19	17-038	16-708
53645	23	5-046	20-606	53717	24	23-045	23-990					53883	9	6-178	9-723	53955	20	18-284	16-474
53646	16	7-349	20-556	53718	35	24-352	23-492					53884	35	8-096	9-928	53956	20	19-034	16-828
53647	22	8-302	20-158	53719	9	1-759	24-714					53885	9	9-938	9-137	53957	24	20-386	16-652
53648	15	9-090	20-856	53720	17	2-824	24-678					53886	12	10-737	9-933	53958	20	23-771	16-000
53649	13	9-436	20-986	53721	13	3-241	24-106					53887	31	14-331	9-890	53959	18	6-300	17-842
53650	13	10-999	20-918	53722	34	4-752	24-120					53888	22	17-045	9-586	53960	24	7-894	17-410
53651	10	11-530	20-204	53723	33	7-096	24-244					53889	12	20-288	9-364	53961	18	9-418	17-960
53652	18	11-778	20-276	53724	10	7-610	24-379					53890	21	21-035	9-430	53962	19	13-336	17-922
53653	17	12-356	20-396	53725	23	8-526	24-936					53891	14	21-114	9-580	53963	14	15-517	17-246
53654	12	13-096	20-852	53726	32	10-151	24-864					53892	22	22-072	9-720	53964	13	20-467	17-236
53655	31	17-306	20-994	53727	17	10-444	24-174					53893	29	22-262	9-628	53965	12	20-578	17-183
53656	13	18-106	20-966	53728	38	11-085	24-436					53894	32	22-710	9-591	53966	22	21-766	17-683
53657	21	21-505	20-226	53729	11	13-244	24-501					53895	37	1-794	10-488	53967	19	24-057	17-841
53658	23	23-582	20-154	53730	34	13-948	24-176					53896	23	2-774	10-559	53968	17	25-298	17-817
53659	39	25-082	20-902	53731	12	16-501	24-897					53897	23	9-990	10-652	53969	11	1-639	18-148
53660	14	1-092	21-080	53732	46	19-688													







54322	17	12.582	21.984	54456	15	0.868	7.334	54528	22	1.170	18.555	<div>R.A. 12<sup>h</sup> 4<sup>m</sup></div> <div>Plate 1676 ; 1920 May 18</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>—01716 +.00458 —.3259</div> <div>D            E            F</div> <div>—00460 —01735 —.3613</div> <div>Mag = 17.0 — 1.05√d</div>
54323	11	15.618	21.200	54457	20	4.024	7.926	54529	19	1.275	18.466	
54324	11	16.018	21.470	54458	13	6.000	7.540	54530	9	1.439	18.500	
54325*	45	18.424	21.022	54459	10	14.782	7.276	54531	16	1.659	18.987	
54326	15	19.388	21.862	54460	33	23.744	7.010	54532	19	1.910	18.094	
54327	16	19.678	21.620	54461	16	25.810	7.169	54533	11	1.7658	18.440	
54328	11	20.954	21.282	54462	27	0.421	8.564	54534	18	19.974	18.924	
54329	25	21.154	21.061	54463	10	1.880	8.446	54535	32	23.788	18.286	
54330	15	21.350	21.074	54464	27	2.352	8.107	54536	10	24.055	18.026	
54331	22	4.938	22.938	54465	10	3.590	8.355	54537	25	1.408	19.859	
54332	31	6.657	22.954	54466	13	7.252	8.359	54538	12	7.095	19.048	
54333*	42	7.174	22.425	54467	13	8.970	8.520	54539	12	11.236	19.816	
54334	14	7.978	22.905	54468	30	13.016	8.006	54540	24	12.532	19.664	
54335	17	8.652	22.951	54469	28	17.275	8.595	54541	19	15.766	19.650	
54336	12	8.845	22.446	54470	19	19.810	8.786	54542	22	16.300	19.134	
54337	11	9.150	22.297	54471	12	22.870	8.454	54543	27	22.818	19.585	
54338	17	9.978	22.550	54472	12	2.718	9.052	54544	16	10.800	20.690	
54339	12	12.302	22.745	54473*	60	12.010	9.358	54545	23	15.934	20.888	
54340	30	18.902	22.828	54474	29	17.838	9.573	54546	14	16.519	20.342	
54341*	38	19.419	22.137	54475	13	24.032	9.120	54547*	66	17.851	20.127	
54342*	40	19.890	22.648	54476	14	25.694	9.712	54548	16	24.490	20.194	
54343	18	20.884	22.801	54477	29	2.332	10.170	54549	12	1.481	21.272	
54344	10	20.952	22.478	54478*	58	3.566	10.420	54550	10	2.300	21.340	
54345	10	21.684	22.408	54479	9	12.046	10.441	54551	13	7.872	21.189	
54346	10	21.717	22.054	54480	16	20.388	10.456	54552	22	15.292	21.854	
54347	36	24.595	22.872	54481	44	21.280	10.444	54553	27	17.796	21.036	
54348*	38	2.189	23.520	54482	15	21.460	10.264	54554	10	21.190	21.490	
54349	20	2.830	23.136	54483	12	22.046	10.886	54555	10	24.587	21.810	
54350	12	4.818	23.704	54484*	86	22.426	10.433	54556	12	7.650	22.685	
54351*	37	5.352	23.772	54485	11	24.466	10.694	54557	10	11.224	22.572	
54352	11	6.294	23.260	54486*	46	17.022	11.056	54558	10	11.470	22.076	
54353	12	14.550	23.916	54487	10	18.810	11.910	54559	10	11.620	22.595	
54354	17	15.330	23.894	54488	19	23.108	11.528	54560	10	16.328	22.426	
54355	10	16.306	23.368	54489	9	23.772	11.628	54561*	29	17.152	22.746	
54356	22	17.705	23.512	54490	10	23.803	11.856	54562	22	17.337	22.887	
54357	12	22.948	23.506	54491	10	1.944	12.494	54563	12	18.543	22.687	
54358*	80	24.370	23.952	54492	10	2.036	12.978	54564*	73	21.210	22.719	
54359	14	9.492	24.913	54493	9	2.296	12.585	54565	9	24.393	22.358	
54360	13	13.865	24.080	54494	18	8.670	12.094	54566	10	25.930	22.631	
54361	15	15.894	24.050	54495*	86	13.281	12.724	54567	30	2.310	23.890	
54362	40	17.308	24.822	54496	11	13.640	12.738	54568	18	4.380	23.808	
54363	20	18.446	24.540	54497	14	0.875	13.110	54569*	39	13.932	23.744	
54364	20	19.298	24.776	54498	11	8.450	13.390	54570	28	15.639	23.326	
54365	12	20.237	24.730	54499	10	0.730	14.456	54571*	27	16.008	23.842	
54366	20	22.920	24.442	54500*	17	5.070	14.978	54572	23	16.440	23.960	
54367	14	2.060	25.142	54501	19	19.900	14.066	54573	12	17.972	23.060	
54368	33	4.301	25.212	54502	12	22.693	14.446	54574*	44	24.755	23.450	
54369	11	9.670	25.746	54503	14	2.630	15.850	54575	12	25.704	23.412	
54370	12	10.222	25.467	54504	14	4.676	15.525	54576	10	0.650	24.568	
54371	26	11.290	25.242	54505	12	5.883	15.598	54577*	91	2.099	24.991	
54372	10	12.220	25.955	54506*	32	6.244	15.784	54578	12	4.478	24.008	
54373	10	14.255	25.940	54507	8	11.740	15.980	54579	17	9.701	24.156	
54374	20	16.174	25.788	54508	27	20.940	15.359	54580	11	10.369	24.113	
54375	11	17.548	25.718	54509	14	23.122	15.424	54581	10	22.350	24.942	
54376	11	19.258	25.529	54510	11	23.152	15.509	54582	19	0.634	25.521	
54377	10	22.500	25.396	54511	23	25.594	15.674	54583*	37	5.099	25.760	
54378	14	24.252	25.522	54512	10	8.410	16.722	54584*	34	14.208	25.336	
54379	25	24.555	25.826	54513*	90	10.822	16.940	54585	10	18.610	25.130	
				54441*	95	14.994	4.014	54586	41	23.723	25.376	
				54442	13	1.384	5.927					
				54443	14	1.916	5.475					
				54444	15	4.814	5.010					
				54445	38	13.020	5.333					
				54446	16	16.066	5.298					
				54447	16	17.720	5.402					
				54448	14	19.984	5.534					
				54449	12	21.416	5.444					
				54450	11	23.494	5.966					
				54451	42	24.628	5.841					
				54452	14	0.622	6.800					
				54453	25	15.995	6.610					
				54454	29	21.224	6.784					
				54455*	92	21.308	6.716					



54656*	59	17.582	4.676	54728	33	0.904	11.090	54800*	49	9.949	18.577	54872	41	1.548	24.685	54929	16	8.732	2.630
54657	10	18.388	4.028	54729	16	1.556	11.176	54801	10	14.776	18.665	54873	18	4.663	24.342	54930	18	12.314	2.756
54658	36	19.236	4.520	54730	19	1.588	11.410	54802	13	15.998	18.956	54874	14	6.949	24.857	54931	17	12.996	2.433
54659	28	19.810	4.366	54731	24	5.008	11.458	54803	30	16.885	18.354	54875	13	7.072	24.750	54932	19	13.934	2.152
54660	10	20.460	4.510	54732	36	6.506	11.030	54804	17	18.790	18.361	54876	28	8.104	24.410	54933	21	15.233	2.374
54661	26	20.830	4.726	54733	13	18.320	11.925	54805	31	0.644	19.000	54877	26	9.878	24.823	54934	15	16.236	2.117
54662	18	24.510	4.031	54734	18	19.084	11.182	54806	24	2.290	19.590	54878*	43	9.998	24.413	54935	23	18.522	2.914
54663*	60	24.544	4.847	54735	14	19.340	11.694	54807	18	4.624	19.980	54879	15	13.565	24.910	54936	22	20.227	2.308
54664	39	25.280	4.676	54736	13	25.550	11.860	54808	29	6.523	19.770	54880	31	14.454	24.868	54937	41	23.792	2.398
54665	21	25.683	4.980	54737	13	1.117	12.748	54809	14	10.694	19.358	54881*	162	15.252	24.907	54938	14	24.834	2.632
54666	16	1.260	5.620	54738	33	4.942	12.138	54810	33	11.270	19.018	54882	19	17.951	24.044	54939	10	2.025	3.856
54667	46	2.374	5.495	54739*	58	7.805	12.934	54811	15	16.950	19.863	54883	26	19.234	24.160	54940	30	7.800	3.576
54668	14	4.422	5.725	54740	29	8.355	12.555	54812	13	18.014	19.768	54884	16	0.083	25.724	54941	18	10.105	3.726
54669	33	5.052	5.228	54741	15	17.675	12.706	54813	25	18.128	19.154	54885	41	10.680	25.329	54942	24	10.142	3.216
54670	11	5.896	5.086	54742	12	23.050	12.600	54814	10	18.564	19.620	54886	10	12.564	25.754	54943*	52	16.070	3.632
54671	14	10.408	5.327	54743	19	23.314	12.886	54815*	59	19.280	19.089	54887	27	13.924	25.310	54944	17	16.260	3.312
54672	28	11.546	5.216	54744	42	24.020	12.024	54816	11	19.718	19.532	54888	27	19.932	25.410	54945	11	19.806	3.614
54673	27	21.940	5.056	54745	54	25.580	12.499	54817	19	21.054	19.698	54889	23	21.729	25.349	54946	38	21.862	3.869
54674	13	22.764	5.164	54746	24	0.506	13.959	54818	13	21.095	19.475	54890	10	23.011	25.840	54947	9	23.706	3.658
54675	10	23.154	5.024	54747*	60	4.154	13.786	54819	78	9.572	20.664	54891	14	24.460	25.486	54948	14	24.472	3.013
54676	11	23.960	5.190	54748	14	15.602	13.158	54820	12	12.120	20.224					54949	9	1.770	4.068
54677	48	1.511	6.644	54749	32	16.762	13.594	54821*	29	13.138	20.195					54950	15	2.483	4.286
54678	11	1.958	6.177	54750	17	17.898	13.012	54822	19	15.554	20.236					54951	34	3.262	4.916
54679	21	3.542	6.798	54751	51	18.474	13.306	54823	19	21.366	20.890					54952	23	4.172	4.502
54680	31	4.386	6.452	54752	10	18.676	13.890	54824	34	22.708	20.690					54953	16	6.000	4.230
54681	46	10.280	6.500	54753	12	20.733	13.099	54825	11	2.201	21.714					54954*	87	6.558	4.146
54682	13	11.927	6.400	54754	10	22.731	13.701	54826	15	2.387	21.176					54955	11	9.665	4.233
54683*	91	13.557	6.419	54755	17	22.774	13.200	54827	14	3.708	21.978					54956*	35	10.094	4.752
54684	52	17.166	6.089	54756	10	23.244	13.438	54828	37	4.790	21.082					54957*	35	12.360	4.102
54685	27	17.668	6.920	54757*	60	24.784	13.278	54829	25	5.080	21.140					54958	13	12.603	4.684
54686	11	20.566	6.360	54758	26	0.930	14.911	54830	29	5.732	21.406					54959*	49	14.438	4.288
54687*	68	24.711	6.666	54759	16	0.962	14.993	54831	21	6.326	21.470					54960*	71	15.508	4.009
54688	11	24.868	6.714	54760	28	4.380	14.008	54832*	55	7.243	21.998					54961	26	16.223	4.542
54689	27	24.900	6.298	54761	17	7.240	14.278	54833	20	10.140	21.930					54962	9	21.810	4.663
54690	10	0.670	7.744	54762	54	10.900	14.000	54834*	54	10.318	21.180					54963	10	1.954	5.454
54691	31	5.257	7.210	54763*	71	15.364	14.076	54835	15	16.217	21.037					54964*	48	2.528	5.098
54692	42	5.609	7.174	54764	24	20.048	14.774	54836	21	17.986	21.940					54965	18	3.671	5.211
54693	15	6.608	7.662	54765	25	20.180	14.010	54837	15	18.316	21.548					54966	20	7.670	5.837
54694	25	7.958	7.380	54766	16	21.050	14.550	54838	25	20.459	21.669					54967	10	9.121	5.707
54695	19	12.469	7.624	54767	43	22.438	14.663	54839	26	22.518	21.231					54968	10	9.122	5.692
54696	9	13.650	7.954	54768	48	23.029	14.595	54840	11	22.863	21.356					54969*	38	11.674	5.980
54697	26	14.434	7.880	54769*	48	1.080	15.854	54841	26	23.777	21.674					54970	16	12.094	5.207
54698	23	17.996	7.270	54770	33	3.359	15.150	54842*	50	2.555	22.787					54971	17	13.384	5.490
54699	47	19.060	7.788	54771	33	6.726	15.692	54843	18	3.491	22.744					54972	15	13.484	5.528
54700	16	21.433	7.363	54772	17	10.574	15.122	54844	25	7.392	22.550					54973	13	18.357	5.253
54701	19	22.308	7.141	54773	38	15.158	15.190	54845	14	9.614	22.440					54974	11	18.574	5.625
54702	22	0.660	8.066	54774	16	17.226	15.990	54846	12	12.090	22.410					54975	12	19.524	5.528
54703	25	1.800	8.722	54775	26	19.666	15.485	54847	11	12.162	22.194					54976	12	22.611	5.480
54704	10	2.815	8.622	54776	28	3.310	16.126	54848	24	13.516	22.321					54977	12	23.748	5.744
54705	12	4.566	8.654	54777	34	4.409	16.262	54849	10	14.700	22.911					54978*	53	2.728	6.915
54706	42	5.290	8.248	54778	15	8.400	16.094	54850*	41	15.132	22.940					54979	8	2.890	6.962
54707	12	6.304	8.903	54779	14	16.515	16.856	54851	22	16.670	22.802					54980	19	2.914	6.542
54708	14	6.482	8.916	54780	28	20.108	16.158	54852	35	18.158	22.086					54981	26	5.521	6.072
54709	19	7.590	8.517	54781	28	22.774	16.542	54853	17	18.544	22.640					54982	25	7.012	6.159
54710	16	11.193	8.780	54782	22	23.830	16.344	54854	20	20.331	22.080					54983	10	7.198	6.827
54711	25	21.878	8.379	54783	13	0.237	17.804	54855	14	20.368	22.990					54984*	44	13.247	6.551
54712	41	24.183	8.476	54784	43	1.594	17.720	54856	18	21.810	22.812					54985	20	14.487	6.568
54713	18	3.438	9.296	54785	14	1.857	17.464	54857	16	25.106	22.500					54986	27	15.183	6.299
54714	23	4.340	9.767	54786	27	2.770	17.038	54858	10	0.181	23.480					54987	12	16.408	6.011
54715	12	4.859	9.121	54787	38	3.403	17.304	54859	17	4.357	23.876					54988	11	17.474	6.880
54716	12	11.810	9.830	54788	33	4.616	17.318	54860	14	6.182	23.107					54989	14	21.418	6.162
54717	53	22.212	9.720	54789	10	9.872	17.291	54861	26	7.348	23.089					54990	19	22.646	6.976
54718*	80	0.220	10.012	54790	14	14.244	17.209	54862	12	9.078	23.650					54991	32	23.616	6.680
54719	15	2.234	10.265	54791	11	23.040	17.870	54863	18	10.010	23.148					54992	15	0.340	7.434
54720	11	3.900	10.616	54792	28	23.826	17.184	54864*	62	11.528	23.750					54993	10	4.275	7.732
54721	31	8.630	10.018	54793	21	23.984	17.736	54865	20	12.460	23.932					54994	15	6.242	7.760
54722	13	11.847	10.659	54794	17	0.230	18.836	54866	30	14.958	23.934					54995	22	6.545	7.102
54723	18	16.120	10.620	54795	14	3.400	18.270	54867	28	18.847	23.756					54996	17	6.857	



55001	23	11.873	7.468	55073	16	1.452	13.157	55145	14	10.038	18.477	55217	34	19.894	23.373	55278*	62	11.328	3.492
55002	24	13.572	7.458	55074*	48	2.925	13.523	55146	23	10.763	18.580	55218	21	20.034	23.025	55279	12	12.180	3.700
55003	11	13.577	7.923	55075	13	4.453	13.311	55147	20	10.798	18.608	55219	16	20.099	23.670	55280	13	12.214	3.860
55004	21	13.804	7.346	55076	18	4.728	13.022	55148	18	11.286	18.466	55220	23	22.088	23.156	55281	30	15.300	3.193
55005	20	14.270	7.086	55077	10	5.525	13.033	55149	9	14.415	18.706	55221	12	25.958	23.084	55282	15	17.422	3.690
55006	15	14.972	7.273	55078	31	5.724	13.387	55150	17	17.692	18.994	55222	17	2.814	24.134	55283	15	19.050	3.735
55007	29	18.730	7.995	55079	15	7.321	13.310	55151	11	21.583	18.067	55223	18	4.975	24.484	55284	12	22.850	3.880
55008	8	20.222	7.825	55080	33	7.726	13.470	55152	10	22.398	18.143	55224	10	13.828	24.352	55285	33	25.866	3.256
55009	9	21.772	7.571	55081	10	12.232	13.896	55153*	40	25.292	18.350	55225	19	21.689	24.280	55286	20	4.054	4.540
55010	13	21.908	7.044	55082	14	12.460	13.116	55154	12	4.853	19.971	55226	8	22.774	24.213	55287	12	7.269	4.152
55011	20	22.894	7.850	55083	14	14.867	13.810	55155	14	6.824	19.376	55227	10	23.567	24.937	55288	34	9.460	4.783
55012	18	22.932	7.788	55084	21	15.165	13.807	55156	20	12.156	19.687	55228	32	24.926	24.587	55289	25	10.227	4.076
55013	23	23.004	7.005	55085	35	16.634	13.634	55157	19	14.166	19.040	55229	14	0.102	25.644	55290	9	16.070	4.938
55014	21	24.844	7.650	55086	10	19.106	13.909	55158	13	14.522	19.662	55230	10	2.830	25.730	55291	11	19.087	4.114
55015	32	2.236	8.734	55087	29	19.119	13.496	55159	11	15.793	19.716	55231	14	4.408	25.046	55292	42	19.899	4.102
55016	10	5.485	8.207	55088*	36	20.358	13.493	55160	16	18.590	19.343	55232	16	10.483	25.334	55293	24	23.977	4.500
55017	14	7.160	8.853	55089	14	20.437	13.930	55161*	45	20.200	19.840	55233	10	13.256	25.416	55294	26	25.195	4.014
55018	15	12.680	8.560	55090	9	21.866	13.046	55162*	88	20.966	19.704	55234	8	18.750	25.810	55295	12	0.475	5.669
55019	18	4.202	9.437	55091	37	24.472	13.054	55163	33	25.441	19.717	55235	23	21.468	25.591	55296	14	1.618	5.922
55020	17	4.753	9.450	55092	36	25.550	13.659	55164	28	0.990	20.973	55236	34	21.529	25.542	55297	36	5.504	5.246
55021	22	5.588	9.320	55093	32	0.607	14.952	55165	9	5.300	20.854	55237	20	23.098	25.480	55298*	46	12.049	5.490
55022	8	5.814	9.590	55094	37	1.198	14.873	55166	18	6.312	20.208					55299	13	19.400	5.330
55023	13	9.566	9.998	55095	15	4.676	14.301	55167	17	8.097	20.584					55300	42	21.102	5.971
55024	25	10.146	9.420	55096	26	12.184	14.272	55168	17	8.850	20.955					55301	42	1.496	6.860
55025	16	13.870	9.802	55097	10	20.465	14.756	55169	8	10.629	20.211					55302	25	5.132	6.356
55026	11	18.291	9.658	55098	8	25.604	14.796	55170	19	10.678	20.826					55303*	73	6.398	6.254
55027	26	21.663	9.726	55099	10	1.513	15.263	55171	19	15.662	20.214					55304	12	7.004	6.839
55028	10	24.044	9.980	55100	10	5.165	15.161	55172	8	15.960	20.651					55305	16	10.324	6.586
55029	39	0.291	10.014	55101*	39	9.307	15.530	55173	18	16.534	20.266					55306*	56	12.722	6.270
55030	8	1.094	10.724	55102	31	9.646	15.031	55174	22	17.176	20.182					55307	29	18.356	6.731
55031	13	3.372	10.261	55103	18	9.990	15.322	55175	16	18.070	20.267					55308	10	18.870	6.188
55032	15	4.928	10.884	55104	10	11.390	15.342	55176	16	19.535	20.604					55309	35	19.380	6.629
55033	40	5.308	10.526	55105	9	16.380	15.631	55177	33	20.772	20.503					55310	18	0.530	7.169
55034	45	8.540	10.656	55106	17	18.287	15.767	55178*	140	22.008	20.176					55311	21	0.825	7.978
55035	16	9.966	10.243	55107	12	18.908	15.660	55179	10	22.904	20.572					55312	26	0.890	7.194
55036	18	10.592	10.959	55108	20	21.950	15.162	55180	16	0.813	21.516					55313	25	2.736	7.816
55037	15	10.827	10.032	55109	27	22.310	15.732	55181	8	1.162	21.632					55314	15	6.020	7.826
55038	14	15.702	10.238	55110	22	0.980	16.824	55182	20	2.078	21.936					55315	14	21.622	7.774
55039	23	16.050	10.207	55111	17	2.033	16.605	55183	22	6.124	21.438					55316	15	21.958	7.709
55040	13	20.746	10.527	55112	23	8.426	16.678	55184	20	10.280	21.267					55317	10	22.019	7.514
55041	25	24.037	10.170	55113	14	9.114	16.156	55185	12	12.396	21.251					55318	21	0.788	8.040
55042	39	1.798	11.020	55114	21	10.332	16.932	55186*	37	16.368	21.857					55319	28	7.764	8.590
55043	16	7.023	11.603	55115	17	11.917	16.946	55187	17	17.856	21.068					55320	13	9.004	8.788
55044	18	8.150	11.436	55116	9	12.742	16.823	55188	13	20.932	21.552					55321	66	12.851	8.570
55045	23	8.200	11.406	55117	12	13.567	16.908	55189*	44	22.680	21.492					55322	32	15.520	8.312
55046	28	14.414	11.832	55118	16	17.274	16.512	55190	28	23.100	21.988					55323*	90	18.938	8.482
55047	14	14.480	11.016	55119	16	17.741	16.077	55191	14	23.788	21.422					55324	40	21.347	8.774
55048	16	16.672	11.646	55120	9	20.314	16.387	55192	36	24.952	21.529					55325	17	23.200	8.939
55049	11	17.278	11.991	55121	21	21.161	16.699	55193	16	3.421	22.731					55326	39	24.353	8.960
55050	13	18.726	11.712	55122	9	21.492	16.086	55194*	39	6.263	22.405					55327	18	24.654	8.496
55051	18	18.959	11.002	55123	13	22.416	16.142	55195	8	11.344	22.872					55328*	48	5.610	9.084
55052*	52	20.232	11.662	55124	17	22.884	16.320	55196	19	13.296	22.884					55329	33	6.927	9.633
55053	19	25.766	11.539	55125	36	22.973	16.127	55197	26	13.640	22.046					55330*	55	9.671	9.744
55054	11	25.963	11.685	55126	12	23.158	16.863	55198	17	15.498	22.996					55331	49	10.190	9.158
55055	12	1.184	12.874	55127	11	24.876	16.206	55199	15	17.670	22.250					55332	18	19.727	9.814
55056	36	2.142	12.284	55128	23	2.044	17.448	55200	18	20.756	22.098					55333	20	20.911	9.276
55057	8	3.330	12.196	55129	19	2.210	17.994	55201	25	20.801	22.792					55334	31	21.916	9.324
55058	9	3.672	12.092	55130	10	4.753	17.688	55202	32	20.916	22.898					55335	9	23.790	9.118
55059*	40	3.706	12.725	55131	26	4.786	17.647	55203	35	21.966	22.774					55336	29	24.457	9.460
55060	27	3.711	12.740	55132	8	7.134	17.452	55204	14	23.504	22.504					55337	31	1.961	10.345
55061	16	4.800	12.916	55133	24	8.920	17.102	55205	24	24.438	22.959					55338	10	3.974	10.994
55062*	50	6.492	12.164	55134*	41	9.052	17.223	55206*	44	24.510	22.766					55339	13	8.224	10.547
55063	17	9.900	12.198	55135	8	12.443	17.474	55207	30	25.052	22.183					55340	48	19.484	10.389
55064	34	11.536	12.851	55136*	46	14.046	17.154	55208	13	0.136	23.112					55341*	59	24.298	10.503
55065	10	14.326	12.944	55137	10	14.175	17.940	55209	9	3.316	23.673					55342	17	3.712	11.694
55066	10	17.285	12.012	55138	28	20.084	17.752	55210	13	6.174	23.584					55343	9	3.914	11.838
55067*	52	17.429	12.020	55139	14	21.792	17.006	55211	12	6.988	23.820					55344	32	7.082	11.142
55068	15	20.504	12.284	55140	19	24.344	17.092	55212	15	8.537									



55350	14	25.140	12.358	55422	21	15.020	22.010	55516	20	8.047	1.322	55588	25	22.058	8.782	55660	11	6.542	15.369
55351	48	2.435	13.222	55423*	84	17.774	22.216	55517	8	8.867	1.934	55589	21	0.078	9.594	55661	11	11.028	15.530
55352*	53	3.522	13.815	55424*	56	19.734	22.298	55518	16	8.928	1.988	55590	15	1.360	9.199	55662	27	16.796	15.720
55353*	75	12.101	13.690	55425	25	20.065	22.916	55519	21	12.634	1.604	55591	11	1.947	9.374	55663*	40	23.040	15.742
55354	12	12.516	13.708	55426	11	20.294	22.771	55520	10	14.400	1.902	55592	27	2.509	9.211	55664	15	0.015	16.588
55355	16	16.996	13.650	55427	30	0.184	23.359	55521	15	17.318	1.784	55593	20	2.618	9.708	55665*	37	0.544	16.498
55356	9	18.763	13.444	55428	28	2.534	23.130	55522	15	19.997	1.577	55594	8	5.545	9.197	55666*	44	4.137	16.362
55357	15	20.168	13.986	55429	14	4.057	23.235	55523	12	2.240	2.142	55595	18	9.180	9.053	55667	36	6.724	16.082
55358*	57	18.014	14.270	55430*	50	5.347	23.066	55524	14	5.362	2.990	55596	8	9.974	9.092	55668	15	7.618	16.140
55359	25	18.065	14.144	55431	25	6.980	23.395	55525	34	6.290	2.874	55597	33	10.513	9.720	55669	12	20.545	16.573
55360	18	18.111	14.290	55432	13	8.080	23.630	55526	15	6.696	2.117	55598	39	10.670	9.756	55670	19	21.524	16.554
55361	35	24.448	14.660	55433	10	9.448	23.641	55527	19	12.840	2.016	55599	8	14.271	9.197	55671	8	22.364	16.678
55362	22	25.010	14.112	55434	22	12.394	23.826	55528	19	17.402	2.664	55600	22	15.270	9.459	55672	8	22.707	16.844
55363	33	0.310	15.930	55435	26	22.296	23.509	55529	8	18.406	2.466	55601	14	19.944	9.296	55673	13	24.762	16.196
55364	9	4.210	15.808	55436	12	23.935	23.706	55530	25	19.034	2.818	55602*	54	22.269	9.501	55674	10	1.240	17.811
55365	49	11.112	15.650	55437*	51	25.048	23.216	55531	23	3.962	3.496	55603	30	23.174	9.932	55675	15	1.880	17.384
55366	14	14.257	15.860	55438	30	25.578	23.414	55532	25	4.243	3.912	55604*	39	2.468	10.756	55676	15	2.938	17.776
55367	26	18.064	15.393	55439	12	0.887	24.404	55533	20	5.339	3.074	55605	13	6.225	10.776	55677	14	3.212	17.753
55368	11	19.640	15.462	55440	43	3.040	24.750	55534	19	6.775	3.046	55606	24	8.368	10.288	55678	19	7.731	17.654
55369	12	23.410	15.588	55441	17	4.313	24.820	55535	15	9.612	3.060	55607	31	9.685	10.036	55679	14	12.612	17.398
55370	13	0.420	16.340	55442	21	7.832	24.654	55536	19	14.160	3.234	55608	21	10.083	10.986	55680	45	16.752	17.520
55371	12	0.891	16.509	55443	25	9.337	24.303	55537*	36	17.490	3.972	55609	20	14.647	10.548	55681	13	17.212	17.154
55372	49	0.980	16.316	55444	31	12.166	24.100	55538	35	19.346	3.114	55610	18	14.892	10.184	55682	18	19.989	17.582
55373	15	4.084	16.762	55445	18	13.764	24.584	55539	26	19.678	3.068	55611	29	16.184	10.334	55683	20	23.938	17.806
55374	36	13.546	16.910	55446	10	21.600	24.839	55540	18	21.967	3.850	55612	21	23.130	10.928	55684	14	2.656	18.300
55375	10	16.038	16.362	55447	29	22.966	24.446	55541	15	23.942	3.922	55613	11	25.539	10.882	55685*	41	3.060	18.388
55376	13	21.784	16.316	55448	28	23.870	24.545	55542	9	0.959	4.147	55614	10	0.507	11.714	55686	8	5.282	18.166
55377*	56	22.320	16.228	55449	44	24.900	24.450	55543	19	2.090	4.757	55615	12	5.216	11.542	55687	16	5.492	18.198
55378	60	25.916	16.127	55450	15	25.648	24.458	55544	20	3.304	4.258	55616	11	5.384	11.350	55688	19	7.278	18.140
55379	10	1.175	17.048	55451	27	1.228	25.669	55545	10	3.902	4.143	55617	16	6.230	11.142	55689	43	9.834	18.448
55380	57	18.384	17.702	55452	27	16.756	25.300	55546	15	5.113	4.874	55618	17	6.942	11.390	55690	11	12.419	18.728
55381	14	23.642	17.130	55453	12	19.685	25.990	55547	9	10.810	4.392	55619	10	7.470	11.912	55691	32	14.732	18.602
55382	15	24.698	17.530	55454	32	24.188	25.264	55548	18	12.918	4.074	55620	9	15.951	11.231	55692	16	24.824	18.040
55383	13	24.973	17.512					55549	20	20.834	4.990	55621	14	20.246	11.630	55693	26	2.804	19.298
55384*	56	3.324	18.510					55550	18	21.942	4.458	55622	32	25.678	11.244	55694	19	3.982	19.924
55385	9	9.746	18.211					55551	12	22.111	4.040	55623	14	0.821	12.552	55695*	84	10.660	19.754
55386*	80	9.900	18.500					55552	12	3.640	5.380	55624	11	3.329	12.600	55696	18	17.868	19.746
55387	35	10.090	18.296					55553	15	6.544	5.648	55625	11	7.328	12.104	55697	21	22.063	19.236
55388	43	10.134	18.190					55554	8	7.581	5.958	55626	38	15.974	12.207	55698	10	22.768	19.328
55389	25	12.540	18.625					55555*	74	9.083	5.753	55627	20	19.715	12.658	55699	20	25.166	19.447
55390	28	16.952	18.270					55556	17	9.656	5.362	55628*	34	23.014	12.820	55700*	35	25.588	19.934
55391	53	18.280	18.234					55557	11	10.458	5.918	55629	17	24.172	12.208	55701	18	4.088	20.691
55392*	55	24.816	18.144					55558	8	14.066	5.300	55630	17	25.660	12.411	55702	11	4.893	20.832
55393	50	3.491	19.872					55559	19	16.160	5.316	55631	10	0.592	13.309	55703	12	7.648	20.033
55394	52	6.236	19.310					55560	10	20.158	5.695	55632	33	4.416	13.513	55704	27	9.286	20.413
55395	14	9.786	19.050					55561	12	21.824	5.510	55633*	42	6.143	13.562	55705	12	9.844	20.223
55396	22	16.406	19.344					55562	45	22.835	5.135	55634	28	8.462	13.353	55706	21	10.024	20.280
55397	19	19.306	19.589					55563	18	5.764	6.236	55635	18	9.366	13.740	55707	36	12.726	20.822
55398	35	24.550	19.050					55564	11	8.635	6.692	55636	27	13.621	13.286	55708	28	13.190	20.552
55399	31	25.721	19.690					55565	12	9.555	6.446	55637	9	17.796	13.982	55709	42	15.022	20.574
55400*	176	0.055	20.375					55566	19	10.041	6.231	55638	10	18.028	13.482	55710	20	16.536	20.306
55401	30	4.820	20.734					55567	15	11.842	6.908	55639*	35	18.593	13.888	55711	11	19.504	20.414
55402	9	8.806	20.258					55568*	50	12.882	6.935	55640	12	22.030	13.843	55712	19	22.664	20.255
55403	29	13.257	20.540					55569	8	22.616	6.228	55641	9	23.298	13.882	55713	26	23.044	20.374
55404	27	14.377	20.966					55570	31	24.492	6.720	55642	18	25.338	13.670	55714	16	23.136	20.462
55405	33	15.170	20.880					55571	13	0.102	7.983	55643	10	1.577	14.264	55715	22	24.814	20.214
55406	18	23.794	20.940					55572	10	0.165	7.785	55644	24	2.660	14.910	55716	35	25.792	20.168
55407	27	25.820	20.458					55573	17	7.822	7.803	55645	17	3.216	14.354	55717	18	2.070	21.202
55408*	55	0.750	21.686					55574	9	9.125	7.950	55646	10	6.088	14.178	55718	9	7.282	21.842
55409	17	1.864	21.600					55575	20	11.614	7.979	55647	20	8.958	14.394	55719	20	10.353	21.476
55410	46	3.025	21.691					55576	11	14.274	7.090	55648	8	12.318	14.712	55720	36	11.314	21.202
55411	12	11.602	21.100					55577	17	15.957	7.063	55649	15	13.021	14.741	55721	15	16.563	21.996
55412	15	14.522	21.436					55578	16	19.268	7.732	55650	24	13.422	14.844	55722	18	17.357	21.183
55413	29	18.331	21.720					55579	14	2.808	8.746	55651	18	13.747	14.358	55723	18	19.572	21.880
55414	17	23.388	21.826					55580	9	5.801	8.788	55652*	86	15.556	14.453	55724*	42	22.482	21.819
55415	38	0.056	22.978					55581*	104	10.952	8.430	55653	10	15.958	14.258	55725	17	22.686	21.451
55416	36																		







56106	11	9.940	5.118	56178	12	18.145	11.914	56250	10	9.251	19.170	<div>R.A. 12<sup>h</sup> 52<sup>m</sup></div> <div>Plate 1644; 1920 Apr. 16.</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>−0.1732 + 0.1145 −1.044</div> <div>D            E            F</div> <div>−0.1164 −0.1728 −0.410</div> <div>Mag.=16.7−1.05√d</div>	56406	11	22.010	5.778
56107	20	16.494	5.174	56179	15	20.566	11.038	56251	20	14.449	19.190		56407	26	23.369	5.476
56108	15	17.158	5.758	56180	17	23.470	11.456	56252	10	15.171	19.016		56408	15	25.074	5.414
56109	13	21.494	5.690	56181	20	23.726	11.680	56253	12	15.690	19.655		56409	20	1.537	6.048
56110*	40	21.758	5.060	56182	22	23.954	11.158	56254	10	16.339	19.355		56410	21	2.880	6.606
56111	18	23.522	5.630	56183	12	25.645	11.720	56255	10	17.522	19.535		56411	14	6.591	6.858
56112	10	1.816	6.558	56184*	47	2.165	12.710	56256	12	19.388	19.559		56412	16	9.336	6.741
56113	15	5.102	6.699	56185	16	6.463	12.234	56257	32	19.678	19.410		56413	14	9.865	6.796
56114	20	5.508	6.362	56186	12	17.515	12.256	56258	20	0.524	20.074		56414	18	10.200	6.351
56115	10	6.630	6.382	56187	15	17.866	12.639	56259	15	4.682	20.860		56415	16	10.954	6.256
56116	12	9.620	6.469	56188	14	24.636	12.674	56260	12	5.190	20.286	56416	10	12.619	6.410	
56117	13	10.130	6.540	56189	25	25.912	12.128	56261	12	7.212	20.678	56417	20	12.768	6.162	
56118	11	12.902	6.940	56190	16	8.740	13.646	56262	10	10.318	20.500	56418	24	25.720	6.758	
56119	10	12.940	6.464	56191	12	10.135	13.999	56263	12	11.469	20.968	56419	27	0.086	7.136	
56120	10	14.599	6.281	56192	20	12.591	13.806	56264	20	13.450	20.540	56420	18	1.544	7.714	
56121	10	14.746	6.518	56193	12	19.110	13.546	56265	28	18.175	20.292	56421	15	2.088	7.196	
56122	16	17.172	6.289	56194	10	19.344	13.258	56266	17	20.483	20.010	56422	11	5.130	7.501	
56123	10	20.788	6.020	56195	10	21.046	13.284	56267	19	22.190	20.413	56423	33	9.351	7.788	
56124	14	21.781	6.486	56196	13	0.940	14.650	56268	24	6.930	21.982	56424	20	10.934	7.058	
56125	20	22.056	6.696	56197	14	1.152	14.600	56269	10	15.274	21.311	56425	37	16.786	7.280	
56126	11	24.056	6.788	56198	15	7.075	14.500	56270	14	17.120	21.572	56426	18	20.995	7.469	
56127	18	24.859	6.208	56199	20	9.020	14.042	56271	28	19.660	21.999	56427	18	22.879	7.598	
56128	18	0.486	7.572	56200	11	9.746	14.596	56272	24	23.508	21.174	56428	24	1.994	8.502	
56129	25	1.138	7.069	56201	24	11.708	14.302	56273	10	0.610	22.251	56429*	38	4.816	8.934	
56130	35	3.715	7.344	56202	13	12.000	14.845	56274	15	0.854	22.036	56430	12	5.214	8.905	
56131	10	6.408	7.567	56203	12	15.558	14.222	56275	15	1.670	22.158	56431	15	5.708	8.581	
56132	26	6.730	7.880	56204	10	23.030	14.956	56276	22	3.231	22.608	56432	24	5.718	8.494	
56133	19	7.096	7.662	56205	22	25.040	14.140	56277	10	10.564	22.482	56433	16	17.644	8.454	
56134	15	7.965	7.385	56206	25	0.318	15.132	56278*	45	13.068	22.370	56434	19	19.064	8.428	
56135	11	8.040	7.874	56207	14	1.652	15.461	56279*	35	14.379	22.330	56435	13	20.164	8.570	
56136	12	8.086	7.150	56208*	78	3.334	15.120	56280	12	15.461	22.464	56436*	48	2.331	9.846	
56137	10	8.516	7.864	56209	14	3.610	15.883	56281	10	17.049	22.839	56437	55	5.705	9.946	
56138	13	9.260	7.628	56210	14	10.514	15.162	56282	18	19.815	22.690	56438	12	9.515	9.851	
56139	11	12.446	7.335	56211*	52	12.633	15.328	56283	12	20.962	22.933	56439	21	10.888	9.693	
56140	19	16.193	7.654	56212	13	16.470	15.778	56284	11	21.276	22.570	56440	18	11.110	9.220	
56141	16	17.950	7.900	56213	29	19.533	15.626	56285	10	23.352	22.248	56441	14	11.900	9.382	
56142	14	23.504	7.295	56214	10	24.205	15.958	56286	16	2.318	23.016	56442	13	12.632	9.550	
56143	18	1.078	8.010	56215	23	25.182	15.886	56287	14	3.567	23.819	56443	36	12.900	9.868	
56144	20	1.110	8.612	56216	28	25.713	15.370	56288	13	3.722	23.304	56444	12	13.384	9.764	
56145	15	2.892	8.738	56217	22	25.843	15.910	56289	21	4.254	23.654	56445	21	16.860	9.301	
56146	14	6.563	8.910	56218	10	1.524	16.659	56290	20	5.064	23.034	56446	38	19.895	9.752	
56147	12	11.177	8.448	56219	19	7.510	16.502	56291	12	10.580	23.600	56447	44	20.196	9.934	
56148	20	12.546	8.160	56220	10	12.086	16.331	56292*	26	11.030	23.540	56448	22	20.380	9.882	
56149*	47	14.128	8.976	56221	18	2.210	17.398	56293	15	12.620	23.418	56449	15	21.700	9.614	
56150	21	15.765	8.898	56222	26	2.460	17.353	56294	19	15.694	23.358	56450	15	22.181	9.834	
56151	20	16.880	8.462	56223	10	2.610	17.682	56295	12	17.285	23.746	56451	14	22.476	9.097	
56152	20	17.322	8.608	56224	13	4.772	17.399	56296	14	24.112	23.428	56452	9	3.330	10.912	
56153*	42	17.375	8.780	56225	30	5.560	17.166	56297	20	25.740	23.734	56453	9	3.636	10.766	
56154	20	18.816	8.490	56226	12	7.000	17.986	56298	12	1.048	24.558	56454	13	4.294	10.292	
56155	12	20.240	8.454	56227	19	7.118	17.530	56299	16	2.975	24.474	56455	35	7.096	10.534	
56156	19	20.866	8.311	56228	16	8.760	17.067	56300	12	10.858	24.910	56456	36	7.372	10.518	
56157	23	23.940	8.090	56229*	29	10.608	17.717	56301	11	13.871	24.830	56457	37	14.080	10.578	
56158	15	6.250	9.154	56230	19	11.945	17.496	56302	13	17.517	24.510	56458	13	16.889	10.827	
56159	22	6.344	9.446	56231	10	12.198	17.394	56303	21	20.830	24.190	56459	35	17.166	10.406	
56160	10	12.640	9.900	56232	13	13.350	17.946	56304	15	24.300	24.380	56460*	56	19.650	10.696	
56161	14	15.120	9.962	56233*	42	14.164	17.110	56305	60	3.511	25.290	56461	13	21.648	10.865	
56162	20	16.124	9.250	56234	14	16.078	17.806	56306	22	4.008	25.045	56462	15	24.368	10.504	
56163	22	16.126	9.208	56235	15	24.813	17.258	56307	20	8.498	25.078	56463	17	1.573	11.874	
56164	34	19.650	9.883	56236	18	24.964	17.820	56308	33	9.388	25.606	56464	21	2.051	11.568	
56165*	36	24.260	9.442	56237	13	1.788	18.387	56309	20	10.931	25.336	56465	24	2.842	11.014	
56166	10															



56478	26	4.024	12.510	56550	22	6.755	18.337	56622	18	23.518	23.682	56672	32	3.008	2.383	56744	16	4.628	8.034
56479	15	4.686	12.905	56551	15	8.056	18.584	56623*	39	24.334	23.083	56673	25	5.948	2.911	56745*	60	6.796	8.532
56480	14	6.214	12.186	56552	13	9.495	18.200	56624	23	2.596	24.788	56674	16	10.358	2.910	56746	13	7.066	8.678
56481	19	9.548	12.116	56553	13	16.240	18.568	56625	11	2.776	24.385	56675	17	12.794	2.574	56747	27	8.302	8.453
56482	17	10.105	12.112	56554	15	17.010	18.204	56626	12	3.920	24.525	56676	17	14.861	2.516	56748	33	14.107	8.950
56483*	82	17.302	12.616	56555	15	18.364	18.551	56627	23	4.025	24.118	56677	11	16.612	2.192	56749	22	14.280	8.508
56484	38	17.678	12.262	56556*	55	19.685	18.739	56628	16	5.532	24.684	56678	30	17.251	2.625	56750*	72	16.412	8.142
56485	16	20.002	12.218	56557	13	19.873	18.446	56629	34	6.322	24.565	56679	27	19.485	2.351	56751	60	16.607	8.101
56486	26	23.848	12.154	56558	14	20.855	18.021	56630	10	6.725	24.140	56680	11	21.352	2.072	56752	21	17.878	8.011
56487	24	24.370	12.918	56559	12	21.268	18.914	56631	17	8.095	24.204	56681	34	21.994	2.500	56753	27	24.698	8.330
56488	14	24.413	12.898	56560	16	24.701	18.386	56632	20	10.434	24.498	56682	10	22.056	2.593	56754	15	0.070	9.813
56489	16	2.756	13.075	56561	19	25.602	18.962	56633	22	10.548	24.216	56683	26	0.728	3.170	56755	13	0.359	9.074
56490	30	8.741	13.406	56562	13	5.685	19.208	56634	17	12.796	24.985	56684*	71	1.316	3.488	56756	13	12.188	9.960
56491	38	17.236	13.993	56563	32	10.840	19.666	56635	20	14.526	24.292	56685	25	2.430	3.092	56757	33	16.310	9.924
56492	22	18.224	13.315	56564	12	13.747	19.434	56636	19	14.528	24.304	56686	24	5.768	3.960	56758	18	17.939	9.825
56493	15	18.998	13.415	56565	25	17.494	19.458	56637	36	17.470	24.646	56687	14	7.142	3.589	56759	20	22.098	9.000
56494	13	23.380	13.254	56566*	56	18.659	19.471	56638	12	17.836	24.372	56688	18	9.613	3.315	56760	11	2.262	10.460
56495	20	23.932	13.352	56567	13	21.100	19.672	56639	14	20.262	24.200	56689	21	12.526	3.600	56761	22	11.566	10.306
56496	38	25.020	13.686	56568	38	21.103	19.516	56640	11	20.442	24.018	56690	14	15.576	3.760	56762	25	13.492	10.056
56497	24	3.182	14.536	56569	16	22.230	19.803	56641	27	22.187	24.008	56691	10	15.777	3.218	56763	27	13.891	10.922
56498	42	7.792	14.171	56570	13	22.786	19.367	56642	23	23.870	24.192	56692	42	17.512	3.621	56764	9	15.630	10.154
56499	18	8.276	14.364	56571	20	0.426	20.854	56643	17	24.370	24.858	56693	26	19.510	3.910	56765	48	17.721	10.086
56500	22	9.602	14.322	56572	12	1.334	20.500	56644	18	4.549	25.194	56694	21	22.282	3.592	56766	12	23.232	10.346
56501	14	13.416	14.416	56573	20	4.941	20.614	56645	13	7.084	25.500	56695	24	23.040	3.474	56767	14	23.614	10.916
56502	48	14.836	14.386	56574	15	5.570	20.242	56646	17	16.594	25.138	56696	13	24.034	3.750	56768	15	25.824	10.058
56503	24	15.850	14.494	56575	17	7.287	20.598	56647	21	23.600	25.768	56697	10	24.348	3.191	56769*	87	0.700	11.150
56504	36	15.934	14.622	56576	39	7.306	20.054	56648	10	24.650	25.170	56698	32	0.060	4.007	56770	15	0.930	11.590
56505	34	16.376	14.586	56577	12	7.975	20.061					56699	13	0.418	4.376	56771	22	1.651	11.670
56506	28	17.585	14.251	56578*	99	12.475	20.034					56700	14	2.543	4.122	56772	12	3.108	11.574
56507	34	19.035	14.972	56579	12	17.221	20.864					56701	10	3.808	4.550	56773	13	7.651	11.424
56508	36	21.516	14.972	56580	11	17.254	20.790					56702	16	10.109	4.260	56774	14	10.804	11.538
56509	14	1.185	15.382	56581	15	21.420	20.866					56703	13	10.183	4.148	56775	37	13.220	11.848
56510	35	3.872	15.756	56582	21	23.762	20.375					56704	28	11.560	4.460	56776	28	14.709	11.084
56511	15	5.106	15.684	56583	27	1.754	21.592					56705	19	12.650	4.416	56777	43	15.482	11.152
56512*	66	7.582	15.102	56584	30	5.842	21.116					56706	12	13.920	4.046	56778	48	16.946	11.610
56513	18	8.226	15.235	56585	23	5.976	21.711					56707	27	14.011	4.739	56779	29	19.728	11.026
56514	17	10.964	15.387	56586	16	7.306	21.941					56708	19	14.918	4.458	56780	10	20.142	11.441
56515	12	11.508	15.464	56587	18	8.612	21.522					56709	13	15.686	4.564	56781	9	21.832	11.714
56516	15	13.996	15.896	56588	15	9.875	21.017					56710	49	18.530	4.560	56782	25	22.415	11.788
56517	16	14.058	15.845	56589	31	10.814	21.381					56711	29	1.210	5.444	56783	27	25.137	11.392
56518	23	18.162	15.744	56590	13	13.615	21.250					56712	9	2.846	5.874	56784	30	1.762	12.116
56519	15	19.884	15.596	56591	22	14.454	21.644					56713	17	2.916	5.364	56785	26	2.294	12.875
56520	46	19.906	15.380	56592	14	15.994	21.403					56714	12	4.650	5.550	56786	10	2.336	12.856
56521	10	20.980	15.916	56593	17	18.136	21.926					56715	14	6.515	5.585	56787	22	5.816	12.640
56522*	54	21.558	15.455	56594	22	23.309	21.910					56716	14	10.650	5.153	56788	51	9.170	12.006
56523	16	22.155	15.418	56595	21	23.964	21.677					56717	31	17.816	5.490	56789	24	9.220	12.592
56524	19	23.516	15.767	56596	17	25.855	21.925					56718	10	19.424	5.710	56790	16	9.580	12.434
56525	16	24.576	15.897	56597	13	1.618	22.668					56719	29	21.301	5.417	56791*	113	11.448	12.140
56526	23	25.478	15.158	56598	12	4.732	22.176					56720	33	23.036	5.643	56792	28	20.448	12.570
56527	27	3.351	16.278	56599	23	11.500	22.430					56721	11	23.488	5.574	56793	12	23.538	12.190
56528	24	4.012	16.294	56600	17	12.535	22.996					56722	24	3.576	6.702	56794	26	24.502	12.846
56529	15	4.212	16.794	56601	15	14.443	22.218					56723	13	4.080	6.456	56795	10	1.305	13.220
56530	15	7.445	16.473	56602	23	20.442	22.550					56724	10	6.967	6.569	56796	27	1.860	13.312
56531	19	12.294	16.868	56603	25	21.612	22.086					56725	11	10.848	6.124	56797	39	2.950	13.636
56532	13	16.904	16.806	56604	15	21.670	22.325					56726	32	12.896	6.510	56798	9	4.810	13.116
56533	17	16.975	16.192	56605	17	22.560	22.710					56727	33	13.281	6.152	56799	47	10.386	13.215
56534	36	17.306	16.987	56606	11	22.976	22.064					56728	10	17.880	6.018	56800	24	12.412	13.623
56535	10	19.385	16.200	56607	16	23.406	22.828					56729	29	18.400	6.648	56801	10	14.340	13.762
56536	10	0.626	17.549	56608	11	1.290	23.858					56730	24	18.839	6.012	56802	17	17.650	13.721
56537	17	3.004	17.656	56609	20	2.392	23.835					56731*	60	19.337	6.050	56803	20	20.020	13.900
56538	12	3.100	17.511	56610	9	4.654	23.898					56732	14	20.274	6.898	56804	31	5.034	14.464
56539	12	4.617	17.708	56611	22	7.016	23.560					56733	22	23.906	6.745	56805	10	5.646	14.109
56540	13	8.280	17.260	56612	10	7.808	23.808					56734	14	24.470	6.608	56806	15	5.950	14.420
56541	22	15.475	17.224	56613	10	8.166	23.565					56735	42	24.894	6.686	56807	10	9.562	14.391
56542	16	16.094	17.145	56614	23	8.863	23.164					56736	21	0.746	7.570	56808	11	10.826	14.668
56543	19	16.686	17.375	56615	15	11.032	23.174					56737	15	4.724	7.806	56809	51	15.269	14.568
56544	28	18.575	17.423	56616	21	12.326	23.866					56738	14	4.924					



56816	28	3.421	15.100	56888	33	4.068	22.724	56958	10	14.869	0.267	57030	22	4.045	7.840	57102	10	16.804	15.766
56817	17	7.200	15.393	56889	25	7.691	22.270	56959	18	15.248	0.438	57031	22	10.899	7.648	57103	12	18.898	15.140
56818	32	14.294	15.698	56890	11	8.503	22.606	56960	30	15.414	0.972	57032	10	13.220	7.154	57104	10	20.777	15.088
56819	43	18.158	15.050	56891	20	10.904	22.689	56961	15	23.462	0.982	57033	28	19.078	7.324	57105	13	21.140	15.540
56820	24	20.470	15.094	56892	10	14.207	22.484	56962	20	23.537	0.900	57034	22	21.620	7.046	57106	24	21.292	15.788
56821	38	23.858	15.964	56893	12	14.220	22.580	56963	42	24.356	0.495	57035	10	21.772	7.040	57107*	45	21.949	15.572
56822	29	24.148	15.014	56894	28	16.266	22.768	56964	13	1.340	1.696	57036	13	23.288	7.630	57108	32	1.751	16.319
56823	34	5.081	16.529	56895	14	21.784	22.798	56965*	46	1.526	1.542	57037	12	23.505	7.689	57109	12	4.390	16.934
56824	10	5.182	16.526	56896	15	23.782	22.405	56966	27	6.517	1.992	57038	23	0.034	8.300	57110	34	6.041	16.832
56825	15	9.527	16.344	56897	33	24.448	22.829	56967	33	8.510	1.937	57039	24	2.530	8.680	57111	32	10.956	16.730
56826	26	10.610	16.342	56898	13	24.736	22.438	56968	34	8.734	1.156	57040	13	4.406	8.599	57112	17	19.574	16.928
56827	15	15.810	16.716	56899	30	0.228	23.990	56969	11	11.464	1.761	57041	13	6.087	8.484	57113	22	20.489	16.988
56828	14	0.821	17.310	56900*	52	2.363	23.040	56970	22	12.190	1.734	57042	38	8.280	8.056	57114	20	24.308	16.146
56829	10	2.714	17.078	56901	11	6.130	23.849	56971	28	12.060	1.271	57043	21	13.480	8.376	57115	28	2.301	17.584
56830	30	7.080	17.254	56902	22	6.674	23.360	56972	16	13.023	1.780	57044	30	20.122	8.170	57116	32	5.553	17.950
56831	14	8.602	17.729	56903	13	7.004	23.363	56973	29	13.064	1.642	57045	10	2.696	9.180	57117	30	8.044	17.838
56832	25	10.788	17.954	56904	26	12.988	23.098	56974	27	16.174	1.918	57046	10	2.834	9.361	57118	35	9.286	17.749
56833	11	11.280	17.836	56905	27	14.612	23.295	56975	32	20.248	1.196	57047	23	9.482	9.368	57119	32	10.110	17.418
56834	12	15.414	17.336	56906	10	15.143	23.529	56976*	48	20.254	1.517	57048	33	9.580	9.925	57120	10	14.920	17.030
56835	10	15.431	17.984	56907	32	18.266	23.470	56977	39	25.738	1.874	57049	33	12.830	9.458	57121	20	15.362	17.414
56836	12	17.260	17.420	56908	27	18.426	23.290	56978	10	4.165	2.378	57050	30	13.615	9.004	57122	32	19.116	17.652
56837	47	17.770	17.747	56909	18	19.629	23.380	56979	12	4.788	2.414	57051	19	14.336	9.979	57123*	69	20.101	17.074
56838	13	18.330	17.340	56910	34	20.100	23.847	56980	29	6.336	2.079	57052	20	15.950	9.949	57124	20	23.018	17.799
56839	19	19.605	17.470	56911	10	24.262	23.530	56981*	46	8.046	2.472	57053	11	16.798	9.448	57125	20	5.190	18.026
56840	17	21.884	17.110	56912	10	24.618	23.832	56982	11	10.422	2.280	57054	21	18.346	9.988	57126	21	6.819	18.811
56841	31	24.398	17.234	56913	27	1.913	24.153	56983	22	14.140	2.151	57055	24	24.028	9.140	57127	13	12.864	18.948
56842	12	2.684	18.339	56914	14	2.430	24.812	56984	16	15.334	2.021	57056	26	24.028	9.948	57128	11	15.102	18.533
56843	14	3.590	18.904	56915	22	4.184	24.469	56985	12	21.110	2.760	57057	12	3.672	10.400	57129	28	17.780	18.390
56844	17	4.928	18.080	56916	17	6.110	24.378	56986	19	0.076	3.961	57058	17	6.190	10.256	57130	27	20.907	18.262
56845	18	12.816	18.484	56917*	45	11.643	24.560	56987	19	0.834	3.836	57059*	45	6.345	10.694	57131*	47	22.582	18.411
56846	11	13.038	18.395	56918	22	16.324	24.752	56988	30	4.468	3.750	57060	11	9.526	10.320	57132	12	24.306	18.892
56847	11	13.396	18.600	56919	30	17.238	24.388	56989	26	7.800	3.138	57061	24	12.093	10.484	57133	27	25.322	18.251
56848*	98	13.458	18.626	56920	10	17.324	24.477	56990	20	8.304	3.234	57062	37	13.240	10.249	57134	29	5.275	19.804
56849	12	17.200	18.770	56921	32	21.030	24.300	56991	32	10.820	3.240	57063	13	13.596	10.572	57135	13	5.880	19.400
56850	27	18.221	18.450	56922	27	23.044	24.456	56992	32	13.258	3.882	57064	16	14.128	10.520	57136	20	6.117	19.590
56851	30	19.458	18.304	56923	10	23.175	24.725	56993	14	14.904	3.510	57065*	42	16.744	10.592	57137	31	9.555	19.770
56852	18	20.307	18.245	56924	13	25.536	24.880	56994	12	14.946	3.110	57066	24	18.864	10.219	57138	28	10.895	19.018
56853	24	20.432	18.840	56925	15	1.662	25.730	56995	12	18.880	3.456	57067	16	22.274	10.283	57139	21	11.740	19.842
56854	13	21.606	18.063	56926	39	5.085	25.478	56996	40	20.758	3.358	57068	11	25.055	10.567	57140	12	12.272	19.418
56855	10	0.226	19.781	56927	17	17.006	25.002	56997	15	21.794	3.326	57069	12	1.469	11.274	57141	17	13.206	19.351
56856	10	0.779	19.346	56928	42	22.106	25.306	56998	17	23.334	3.914	57070	18	2.995	11.740	57142	27	16.497	19.844
56857	28	8.130	19.518					56999	20	23.518	3.750	57071	25	3.980	11.030	57143	19	18.292	19.146
56858	21	9.241	19.852					57000	13	1.830	4.102	57072	17	10.882	11.538	57144	34	19.780	19.851
56859	13	10.570	19.178					57001	27	4.520	4.436	57073	24	17.544	11.260	57145	11	22.400	19.239
56860	10	11.829	19.601					57002	19	7.334	4.494	57074	30	24.280	11.511	57146	25	22.700	19.564
56861	21	15.770	19.220					57003	17	7.335	4.661	57075*	43	24.626	11.683	57147	10	22.760	19.704
56862	36	19.232	19.902					57004	22	7.358	4.001	57076	23	0.276	12.159	57148	9	23.352	19.632
56863	11	23.610	19.378					57005	10	8.602	4.465	57077	13	1.075	12.358	57149	16	25.339	19.138
56864	10	24.039	19.676					57006	18	9.249	4.660	57078	12	1.402	12.552	57150	22	25.680	19.674
56865*	82	24.654	19.941					57007*	61	9.268	4.906	57079	12	8.300	12.382	57151	15	1.036	20.615
56866	27	1.764	20.338					57008	22	9.376	4.588	57080	9	10.748	12.014	57152*	72	2.574	20.289
56867	25	4.610	20.870					57009	27	10.204	4.852	57081	44	15.410	12.166	57153	15	4.275	20.209
56868	10	16.778	20.216					57010*	37	16.966	4.858	57082*	48	17.765	12.917	57154	22	4.584	20.133
56869	17	19.100	20.766					57011	13	20.200	4.662	57083	12	18.615	12.956	57155*	43	5.610	20.479
56870	37	20.096	20.796					57012	31	24.580	4.092	57084	32	19.448	12.302	57156	28	12.687	20.053
56871	10	21.256	20.180					57013	21	8.961	5.945	57085	31	21.112	12.950	57157	16	16.360	20.675
56872	19	23.108	20.253					57014*	44	19.632	5.418	57086*	80	23.650	12.618	57158	12	16.844	20.156
56873	26	1.328	21.880					57015	19	21.704	5.404	57087	23	2.372	13.197	57159	17	18.724	20.749
56874	26	1.980	21.637					57016	9	25.451	5.062	57088	27	13.142	13.562	57160	33	24.756	20.686
56875	13	3.874	21.863					57017	11	25.700	5.091	57089	28	18.056	13.470	57161	33	12.597	21.324
56876	34	7.613	21.126					57018	28	0.847	6.003	57090	11	18.108	13.124	57162	16	14.889	21.388
56877	10	7.880	21.491					57019	12	5.929	6.661	57091	19	19.532	13.320	57163	13	17.360	21.967
56878	10	8.504	21.166					57020	22	6.965	6.626	57092	31	0.876	14.620	57164	23	20.544	21.182
56879	43	12.202	21.576					57021	15	11.010	6.602	57093	16	3.548	14.485	57165	31	20.764	21.070
56880	24	17.484	21.758					57022	29	12.102	6.363	57094	27	9.941	14.528	57166	31	21.930	



57174	29	9.764	22.087	57263	24	1.140	1.050	57335	11	12.204	9.822	57407	11	5.728	18.268	57479	15	14.235	25.838
57175	65	14.400	22.318	57264	47	3.426	1.906	57336	42	12.962	9.046	57408	57	5.774	18.859	57480	24	16.632	25.387
57176	32	16.891	22.420	57265	30	7.935	1.900	57337	24	13.586	9.118	57409	32	6.812	18.520	57481	28	17.582	25.610
57177	20	18.858	22.946	57266	41	7.967	1.776	57338	54	20.942	9.465	57410	29	12.762	18.150	57482	17	19.834	25.521
57178	24	22.084	22.190	57267	57	8.264	1.138	57339	28	21.148	9.175	57411	12	20.663	18.834				
57179	41	25.336	22.674	57268	30	17.094	1.876	57340	12	23.181	9.730	57412	18	21.421	18.850				
57180	31	2.395	23.178	57269	14	6.230	2.114	57341	10	23.861	9.635	57413	19	22.286	18.874				
57181	22	4.036	23.587	57270	41	8.200	2.561	57342	21	0.114	10.370	57414	21	22.425	18.044				
57182	21	7.282	23.042	57271	49	8.502	2.457	57343	30	1.862	10.006	57415	29	23.602	18.066				
57183	12	7.702	23.520	57272	34	12.157	2.734	57344	32	15.064	10.696	57416	27	0.705	19.645				
57184	34	13.530	23.629	57273	11	12.270	2.470	57345	11	15.406	10.376	57417	17	3.334	19.175				
57185	12	18.411	23.750	57274	43	13.886	2.264	57346	32	19.960	10.062	57418	22	3.684	19.704				
57186	12	21.554	23.972	57275	16	15.124	2.638	57347	28	21.780	10.355	57419	22	4.778	19.780				
57187	14	25.722	23.917	57276	48	15.252	2.749	57348	23	23.164	10.187	57420	72	10.126	19.640				
57188	26	25.758	23.014	57277	52	19.344	2.015	57349	22	23.379	10.214	57421	35	19.790	19.992				
57189	23	1.006	24.816	57278	27	21.658	2.426	57350	32	24.924	10.255	57422	21	23.957	19.122				
57190	33	5.619	24.370	57279	16	21.700	2.654	57351	29	25.735	10.937	57423	62	25.383	19.914				
57191	13	10.034	24.188	57280	21	23.552	2.850	57352	35	2.140	11.566	57424	30	25.552	19.517				
57192	11	12.354	24.180	57281	33	25.136	2.176	57353	59	2.485	11.730	57425	35	2.778	20.734				
57193	37	13.969	24.578	57282	22	1.062	3.986	57354	18	4.490	11.385	57426	16	4.258	20.291				
57194	15	15.151	24.442	57283	24	1.244	3.820	57355	14	15.068	11.410	57427	27	10.656	20.856				
57195	29	16.338	24.002	57284	34	6.134	3.488	57356	48	16.399	11.833	57428	10	11.788	20.400				
57196	10	18.516	24.584	57285	31	6.995	3.346	57357	80	16.430	11.103	57429	30	22.932	20.191				
57197	27	19.682	24.769	57286	26	9.867	3.350	57358	39	22.487	11.123	57430	12	2.338	21.922				
57198	12	23.861	24.929	57287	20	10.423	3.266	57359	20	24.497	11.458	57431	19	3.466	21.265				
57199	36	0.073	25.674	57288	25	10.466	3.696	57360	15	25.942	11.477	57432	29	5.304	21.088				
57200	13	3.505	25.222	57289	19	11.063	3.216	57361	93	1.518	12.680	57433	13	7.638	21.442				
57201	34	4.474	25.774	57290	17	13.608	3.592	57362	15	9.320	12.632	57434	32	8.379	21.748				
57202	11	4.956	25.560	57291	25	16.330	3.372	57363	12	10.063	12.689	57435	49	11.043	21.144				
57203	12	6.429	25.784	57292	24	16.890	3.746	57364	16	16.656	12.476	57436	38	11.804	21.909				
57204	16	9.307	25.276	57293	47	19.568	3.156	57365	49	17.641	12.668	57437	18	13.162	21.408				
57205	16	11.046	25.968	57294	17	20.328	3.767	57366	30	24.646	12.358	57438	29	13.668	21.502				
57206	42	12.594	25.801	57295	16	21.578	3.400	57367	13	25.836	12.508	57439	48	15.834	21.016				
57207	9	17.225	25.728	57296	23	24.286	3.994	57368	26	4.447	13.992	57440	31	20.138	21.162				
57208	12	18.019	25.748	57297	13	1.816	4.568	57369	25	9.992	13.630	57441	19	20.205	21.390				
57209	24	19.350	25.175	57298	34	2.310	4.144	57370	9	13.600	13.137	57442	35	23.152	21.841				
57210	25	21.603	25.402	57299	14	7.714	4.533	57371	60	14.190	13.910	57443	23	23.632	21.282				
57211	12	25.315	25.458	57300	43	9.066	4.014	57372	33	22.972	13.663	57444	27	0.134	22.283				
57212	15	25.903	25.986	57301	89	9.975	4.828	57373	31	23.012	13.680	57445	13	0.214	22.699				
				57302	22	10.570	4.974	57374	30	23.229	13.734	57446	47	3.392	22.707				
				57303	73	14.956	4.590	57375	21	2.762	14.996	57447	12	6.604	22.157				
				57304	30	21.010	4.648	57376	46	12.452	14.566	57448	26	8.190	22.423				
				57305	30	21.822	4.308	57377	26	15.190	14.652	57449	19	10.270	22.618				
				57306	34	21.963	4.055	57378	42	19.858	14.564	57450	36	10.482	22.738				
				57307	27	23.366	4.048	57379	17	25.057	14.688	57451	82	11.614	22.552				
				57308	28	24.448	4.084	57380	10	25.136	14.515	57452	29	23.426	22.834				
				57309	26	25.442	4.925	57381	37	4.840	15.806	57453	23	25.121	22.800				
				57310	12	3.452	5.125	57382	20	6.707	15.520	57454	11	25.292	22.076				
				57311	36	3.810	5.526	57383	94	11.698	15.748	57455	20	3.800	23.946				
				57312	11	9.289	5.069	57384	60	13.692	15.131	57456	32	3.821	23.041				
				57313	28	9.300	5.710	57385	36	15.686	15.650	57457	27	5.480	23.589				
				57314	26	13.832	5.805	57386	21	19.613	15.770	57458	29	8.203	23.462				
				57315	19	16.974	5.036	57387	30	22.543	15.779	57459	46	8.706	23.135				
				57316	98	19.492	5.301	57388	28	25.117	15.450	57460	30	13.932	23.932				
				57317	26	23.255	5.504	57389	22	2.252	16.200	57461	15	17.338	23.176				
				57318	60	1.297	6.638	57390	27	14.300	16.401	57462	49	20.256	23.522				
				57319	47	8.150	6.664	57391	14	21.800	16.582	57463	22	20.256	23.500				
				57320	15	1.080	7.703	57392	15	21.872	16.968	57464	13	22.607	23.034				
				57321	12	1.300	7.759	57393	18	22.469	16.207	57465	26	5.417	24.267				
				57322	49	13.880	7.909	57394	39	25.144	16.491	57466	9	6.209	24.666				
				57323	33	15.612	7.554	57395	35	25.248	16.550	57467	13	9.288	24.980				
				57324	13	19.114	7.917	57396	17	0.990	17.875	57468	13	17.399	24.056				
				57325	14	19.387	7.840	57397	14	5.982	17.128	57469	11	19.450	24.642				
				57326	36	20.045	7.402	57398	28	6.014	17.210	57470	26	20.156	24.536				
				57327	54	24.954	7.160	57399	12	6.252	17.310	57471	24	21.003	24.350				
				57328	16	25.418	7.740	57400	12	6.294	17.520	57472	27	21.596	24.454				
				57329	52	7.492	8.960	57401	28	14.952	17.736	57473	48	22.245	24.116				
				57330	25	16.420	8.542	57402	19	15.892	17.727	57474	32	25.075	24.528				
				57331	17	16.845	8.138	57403	31	19.222	17.150	57475	30	25.660	24.588				
				57332	30	24.400	8.950	57404	63	0.562	18.484	57476	17	25.866	24.456				
				57333	14	25.285	8.498	57405	13	2.297	18.946	57477	24	3.424	25.495				
				57334	28	1.850	9.200	57406	30	3.300	18.285	57478	30	11.488	25.908				

**R.A. 13<sup>h</sup> 16<sup>m</sup>**

Plate 1679; 1920 May 19.

*Provisional Constants.*

A      B      C  
 -01730 +01000 -3736

D      E      F  
 -01019 -01737 -2367

*Mag. = 17.4 - 1.05√d*

No.	d	x	y
57251			



57545	11	12.798	4.450	57617	19	20.479	9.248	57689	19	16.907	15.414	57761	8	1.735	22.169	57855	22	17.264	0.870
57546*	40	12.968	4.352	57618	26	20.714	9.047	57690	11	18.202	15.944	57762	15	3.303	22.992	57856	13	18.917	0.486
57547	10	13.722	4.018	57619	14	21.514	9.118	57691	16	20.053	15.572	57763	8	3.467	22.262	57857	22	19.844	0.907
57548	22	14.470	4.132	57620	10	25.361	9.237	57692	17	21.570	15.378	57764	20	5.230	22.651	57858	12	20.965	0.641
57549	16	14.572	4.864	57621	17	1.185	10.404	57693	13	23.468	15.386	57765*	60	6.383	22.456	57859	13	22.047	0.825
57550	33	17.780	4.054	57622	14	1.400	10.428	57694	16	24.202	15.809	57766*	59	9.358	22.833	57860	22	25.580	0.323
57551	28	18.081	4.368	57623	20	2.943	10.448	57695	15	24.350	15.053	57767	40	9.518	22.812	57861	19	0.077	1.686
57552	21	19.626	4.526	57624	20	5.383	10.157	57696	13	0.566	16.432	57768	18	9.976	22.522	57862	11	7.006	1.145
57553	18	20.775	4.773	57625	36	9.594	10.499	57697	20	0.635	16.004	57769	16	11.059	22.354	57863	23	8.534	1.776
57554	18	21.327	4.644	57626	9	16.470	10.486	57698	8	2.291	16.609	57770*	51	13.340	22.425	57864	16	9.300	1.364
57555	30	24.644	4.172	57627	8	17.417	10.330	57699	30	3.244	16.682	57771	34	13.852	22.354	57865	12	12.662	1.828
57556	17	1.214	5.718	57628	15	20.712	10.453	57700	27	3.349	16.740	57772	13	15.306	22.350	57866	16	15.316	1.266
57557	17	3.391	5.114	57629	12	25.567	10.566	57701	27	7.390	16.574	57773	16	17.736	22.077	57867*	40	1.699	2.175
57558	19	6.888	5.714	57630	26	0.519	11.348	57702	27	13.383	16.384	57774	31	21.069	22.092	57868	10	7.036	2.048
57559	18	9.291	5.404	57631	16	2.534	11.658	57703	10	19.560	16.684	57775	23	25.728	22.258	57869	17	7.360	2.320
57560	16	9.865	5.688	57632	19	3.763	11.120	57704	20	22.905	16.900	57776	18	1.610	23.046	57870	10	7.430	2.990
57561	29	10.742	5.222	57633	12	3.980	11.660	57705	20	8.352	17.837	57777	18	5.035	23.309	57871	13	12.068	2.450
57562	28	10.748	5.916	57634	31	6.098	11.031	57706	9	14.890	17.741	57778	32	5.110	23.492	57872	20	15.846	2.316
57563	8	14.174	5.760	57635	8	9.270	11.374	57707	26	21.490	17.175	57779	30	8.842	23.058	57873	24	17.058	2.752
57564	21	14.731	5.226	57636	11	10.685	11.518	57708	14	21.910	17.515	57780	20	8.914	23.930	57874	14	19.034	2.038
57565	10	15.740	5.518	57637	14	11.052	11.672	57709	20	25.708	17.194	57781*	45	10.249	23.146	57875	23	23.270	2.848
57566	9	16.974	5.240	57638*	42	17.492	11.192	57710	14	0.546	18.272	57782	12	11.838	23.371	57876	14	23.848	2.340
57567*	45	19.756	5.692	57639	17	17.852	11.450	57711	21	1.726	18.277	57783	17	14.367	23.682	57877	10	1.404	3.595
57568	13	19.877	5.316	57640	10	19.610	11.047	57712	25	9.978	18.413	57784	9	16.760	23.210	57878	24	7.155	3.575
57569	9	23.616	5.650	57641*	39	20.732	11.537	57713	20	12.988	18.394	57785	23	17.086	23.712	57879	14	10.350	3.545
57570	19	4.192	6.222	57642	33	22.866	11.036	57714	14	15.997	18.749	57786	10	17.305	23.778	57880	14	11.001	3.516
57571	18	5.402	6.836	57643	22	23.711	11.052	57715	24	16.293	18.602	57787	10	18.491	23.598	57881*	40	14.716	3.700
57572	8	6.600	6.053	57644	24	24.212	11.600	57716	10	16.708	18.912	57788	10	23.364	23.563	57882	20	15.139	3.960
57573	10	7.938	6.630	57645	20	2.694	12.558	57717	9	17.627	18.606	57789	40	0.443	24.342	57883*	38	22.464	3.502
57574	17	10.416	6.740	57646	10	3.886	12.694	57718	9	18.462	18.590	57790	20	3.280	24.718	57884	13	1.820	4.016
57575	10	12.695	6.152	57647	20	4.112	12.697	57719	19	18.592	18.840	57791	23	3.864	24.769	57885	25	2.714	4.566
57576	17	13.184	6.301	57648	18	4.287	12.582	57720	16	20.190	18.650	57792	14	4.072	24.635	57886	20	7.552	4.570
57577	21	13.703	6.164	57649	11	4.505	12.208	57721	10	20.830	18.045	57793	35	6.336	24.158	57887	22	8.524	4.975
57578	20	16.288	6.479	57650	29	7.870	12.692	57722	25	22.974	18.816	57794	24	10.514	24.463	57888	32	10.918	4.045
57579	8	16.862	6.944	57651	10	8.300	12.130	57723	12	0.418	19.102	57795	12	11.014	24.894	57889	19	11.760	4.476
57580	16	18.355	6.904	57652	26	9.807	12.746	57724	17	2.093	19.327	57796	20	12.704	24.290	57890	20	19.260	4.602
57581	11	19.530	6.489	57653	14	14.622	12.210	57725	20	3.692	19.700	57797	9	13.730	24.590	57891	26	22.151	4.234
57582	32	22.106	6.251	57654	17	15.026	12.585	57726	19	6.097	19.667	57798	12	16.522	24.129	57892	26	4.176	5.278
57583	8	22.379	6.799	57655	16	17.922	12.881	57727	33	11.428	19.863	57799	10	18.220	24.742	57893	12	14.357	5.218
57584	10	22.515	6.116	57656	17	20.448	12.766	57728	10	13.749	19.418	57800	18	20.600	24.018	57894	20	14.638	5.598
57585	14	24.354	6.802	57657	14	25.087	12.964	57729	10	14.158	19.412	57801	14	5.076	25.640	57895	20	17.748	5.170
57586*	40	2.931	7.355	57658	14	25.432	12.144	57730	16	16.574	19.812	57802	26	8.262	25.960	57896	36	21.388	5.630
57587	13	3.406	7.928	57659	23	1.036	13.881	57731	13	19.594	19.908	57803	36	10.144	25.114	57897	22	0.210	6.685
57588	12	16.478	7.028	57660	25	1.078	13.897	57732	17	23.782	19.550	57804	20	11.349	25.051	57898	20	5.016	6.572
57589	8	17.278	7.431	57661	23	1.294	13.949	57733	12	25.670	19.608	57805	18	18.718	25.476	57899	18	5.420	6.475
57590	18	18.387	7.846	57662	36	7.224	13.531	57734	23	1.080	20.410	57806	22	19.556	25.098	57900	11	6.095	6.974
57591	19	21.335	7.332	57663	14	7.936	13.880	57735	46	3.525	20.098	57807	34	24.618	25.788	57901	11	9.354	6.064
57592	21	22.120	7.618	57664	28	7.972	13.993	57736	17	16.061	20.251					57902	14	15.355	6.750
57593	12	23.962	7.870	57665	10	8.835	13.966	57737	23	16.747	20.550					57903	19	17.520	6.058
57594	35	25.645	7.814	57666	10	9.665	13.088	57738	31	16.856	20.362					57904	12	20.120	6.028
57595	8	25.712	7.692	57667	14	12.194	13.260	57739	19	17.299	20.366					57905	13	20.495	6.660
57596	10	3.282	8.686	57668	20	12.780	13.530	57740	18	18.444	20.372					57906	16	2.468	7.200
57597	11	3.688	8.786	57669	9	13.692	13.738	57741	20	20.507	20.522					57907	21	20.900	7.855
57598	23	8.290	8.444	57670	11	19.150	13.013	57742	10	21.336	20.070					57908	10	21.200	7.361
57599	21	8.382	8.450	57671	17	19.378	13.850	57743	17	21.557	20.938					57909	16	23.750	7.166
57600	18	11.191	8.843	57672	10	20.773	13.826	57744*	45	21.813	20.184					57910	19	0.248	8.052
57601	32	14.724	8.996	57673	15	24.918	13.525	57745	19	22.297	20.702					57911	12	2.092	8.275
57602	8	15.408	8.244	57674	18	25.930	13.252	57746	8	25.557	20.134					57912	12	2.887	8.848
57603	17	17.174	8.587	57675	10	3.136	14.880	57747	13	1.794	21.490					57913*	33	3.773	8.195
57604	20	17.431	8.380	57676	36	7.112	14.074	57748	8	1.875	21.672					57914	10	3.840	8.068
57605	25	18.348	8.153	57677	18	8.674	14.312	57749	30	4.194	21.746					57915	13	6.588	8.151
57606	19	20.520	8.844	57678*	48	9.450	14.972	57750*	52	5.268	21.676					57916	18	8.705	8.426
57607	8	23.940	8.772	57679	29	13.946	14.948	57751	24	7.131	21.228					57917	10	10.360	8.594
57608	15	24.428	8.728	57680	16	16.556	14.289	57752	18	12.091	21.580					57918	10	12.334	8.812
57609	13	24.746	8.456	57681	31	17.742	14.228	57753	8										



57927	12	7.184	10.549	57999	11	6.760	19.520	<div>R.A. 13<sup>h</sup> 40<sup>m</sup></div> <div>Plate 1680: 1920 May 19</div> <div>Provisional Constants.</div> <div>A B C</div> <div>- 01730 +.00787 -2660</div> <div>D E F</div> <div>-00810 -01756 -2937</div> <div>Mag =16.9-1.05√d</div>	58156	18	20.087	4.650	58228	33	12.062	11.940
57928	18	17.005	10.220	58000	13	8.940	19.984		58157	13	20.348	4.644	58229	41	13.582	11.662
57929	15	22.764	10.787	58001	11	16.792	19.697		58158	30	21.825	4.529	58230*	66	17.206	11.971
57930	12	23.646	10.486	58002	24	23.961	19.849		58159	32	21.895	4.260	58231	12	18.247	11.578
57931	16	23.765	10.289	58003	20	24.006	19.170		58160*	46	22.422	4.894	58232	24	18.989	11.236
57932	17	24.208	10.758	58004	40	0.136	20.623		58161*	49	22.725	4.476	58233	36	0.451	12.950
57933	26	1.045	11.455	58005	20	4.794	20.552		58162	13	23.143	4.738	58234	10	5.065	12.537
57934	20	1.892	11.460	58006	13	11.680	20.060		58163	39	24.210	4.190	58235	44	8.230	12.585
57935	13	10.030	11.544	58007*	34	13.340	20.934		58164	64	25.679	4.931	58236	12	8.723	12.760
57936	23	10.490	11.680	58008	19	15.169	20.175		58165	13	2.217	5.390	58237	11	8.892	12.116
57937	26	12.017	11.762	58009	25	15.299	20.418	58166	31	3.744	5.607	58238	12	11.859	12.676	
57938	20	12.310	11.100	58010	20	19.487	20.692	58167	12	12.154	5.126	58239	30	12.186	12.288	
57939	22	17.808	11.965	58011	19	19.505	20.692	58168	14	16.750	5.119	58240	45	12.330	12.400	
57940	16	22.818	11.085	58012	20	21.798	20.314	58169	12	18.208	5.410	58241	31	13.371	12.344	
57941	18	2.401	12.000	58013	13	22.074	20.860	58170	13	23.989	5.810	58242	44	14.498	12.392	
57942	13	3.630	12.524	58014	16	0.630	21.132	58171	12	5.270	6.192	58243	42	15.319	12.668	
57943	14	6.682	12.777	58015	22	0.764	21.518	58172	14	5.924	6.766	58244	33	15.880	12.900	
57944	33	6.922	12.552	58016	24	2.378	21.976	58173	12	7.454	6.330	58245	31	17.199	12.951	
57945	10	13.010	12.176	58017	15	4.551	21.270	58174	24	21.625	6.323	58246	43	18.394	12.524	
57946	12	13.795	12.296	58018	10	6.686	21.854	58175	17	22.420	6.066	58247	21	19.496	12.122	
57947	12	14.220	12.655	58019	14	14.968	21.195	58176	13	22.448	6.684	58248	11	20.022	12.165	
57948	17	19.119	12.580	58020	20	15.724	21.819	58177	12	23.470	6.886	58249	30	21.470	12.548	
57949	10	19.562	12.427	58021	18	17.010	21.510	58178	22	24.898	6.243	58250	25	25.625	12.566	
57950	28	22.668	12.861	58022	10	17.174	21.284	58179	28	1.494	7.249	58251	44	7.058	13.146	
57951	14	3.140	13.914	58023	20	18.284	21.365	58180	14	4.198	7.688	58252	27	11.055	13.615	
57952	13	3.298	13.351	58024	10	22.327	21.327	58181	21	5.850	7.404	58253	30	12.846	13.432	
57953	16	4.147	13.624	58025	21	24.966	21.843	58182	12	8.262	7.217	58254	15	16.735	13.196	
57954*	35	12.350	13.616	58026	12	0.274	22.016	58183	15	9.100	7.126	58255	27	18.189	13.900	
57955	33	13.265	13.288	58027	20	4.088	22.630	58184	32	9.562	7.059	58256	13	20.050	13.205	
57956	11	15.850	13.080	58028	20	5.225	22.616	58185	29	12.232	7.928	58257	41	0.404	14.884	
57957*	44	16.535	13.420	58029	12	5.845	22.246	58186	17	13.880	7.110	58258	34	3.760	14.492	
57958	23	2.128	14.436	58030	13	6.310	22.012	58187	13	14.040	7.696	58259	37	5.388	14.826	
57959*	44	11.180	14.838	58031*	40	8.411	22.895	58188	20	14.557	7.518	58260	14	11.025	14.400	
57960	10	16.340	14.128	58032	20	9.244	22.832	58189	15	19.704	7.110	58261	19	12.740	14.240	
57961	33	22.608	14.796	58033	15	12.008	22.398	58190	13	23.623	7.372	58262	18	12.884	14.241	
57962	20	25.970	14.424	58034	12	16.429	22.871	58191	20	25.311	7.248	58263	11	13.884	14.027	
57963	12	1.718	15.796	58035	11	17.457	22.780	58192	42	25.994	7.797	58264	42	17.982	14.476	
57964	14	2.596	15.450	58036	16	18.120	22.525	58193*	54	7.804	8.999	58265	16	18.194	14.083	
57965	25	5.016	15.030	58037	10	19.327	22.122	58194	18	10.166	8.044	58266	21	19.566	14.797	
57966*	47	5.660	15.297	58038	21	20.050	22.930	58195	13	13.159	8.294	58267	46	0.087	15.752	
57967	15	12.128	15.576	58039	11	20.266	22.016	58196	29	16.720	8.360	58268	31	1.172	15.105	
57968*	40	20.920	15.021	58040	17	5.796	23.886	58197	22	20.077	8.410	58269	38	3.842	15.716	
57969	40	22.290	15.660	58041	10	8.868	23.618	58198	14	21.375	8.550	58270	34	9.802	15.640	
57970	24	23.374	15.020	58042	12	9.460	23.898	58199	16	23.078	8.941	58271	26	11.071	15.970	
57971	12	23.700	15.926	58043	10	21.560	23.870	58200	34	23.553	8.269	58272	32	13.966	15.655	
57972	12	2.458	16.210	58044*	35	7.484	24.188	58201	24	23.990	8.674	58273	12	23.295	15.212	
57973	14	9.397	16.532	58045	18	8.701	24.760	58202	28	4.034	9.669	58274	45	23.723	15.600	
57974*	67	11.736	16.616	58046	12	11.998	24.046	58203*	57	9.726	9.113	58275	15	1.507	16.008	
57975	14	13.092	16.026	58047	12	15.166	24.970	58204	34	11.250	9.818	58276	17	3.220	16.294	
57976	26	17.230	16.892	58048	10	4.310	25.909	58205	18	15.676	9.293	58277	12	8.531	16.287	
57977	20	19.686	16.419	58049	50	7.365	25.686	58206	11	15.716	9.672	58278	33	11.257	16.764	
57978	16	20.230	16.942	58050	20	17.836	25.822	58207	10	15.853	9.362	58279	25	11.672	16.972	
57979	12	25.415	16.224	58051	11	18.602	25.230	58208	25	19.898	9.154	58280	44	14.414	16.526	
57980	18	1.180	17.320	58052	10	19.026	25.330	58209	29	20.350	9.958	58281*	43	18.520	16.516	
57981	15	3.986	17.568	58053	41	20.274	25.782	58210	12	20.440	9.829	58282	23	19.828	16.064	
57982	19	7.784	17.368	58054	15	21.678	25.360	58211	47	25.570	9.631	58283	42	21.250	16.188	
57983*	42	12.560	17.411	58055	15	22.004	25.248	58212	34	0.475	10.010	58284	32	24.446	16.581	
57984	21	18.794	17.780					58213	25	0.534	10.876	58285	21	0.508	17.105	
57985	11	19.510	17.266					58214	17	1.414	10.568	58286	24	1.322	17.694	
57986	16	21.861	17.418					58215	26	1.530	10.370	58287	10	6.210		



58300	13	21.939	17.760	58372	25	13.588	24.701	58428	12	20.470	1.397	58500	12	13.710	7.571	58572	15	15.936	13.524
58301	25	23.526	17.285	58373	25	14.843	24.290	58429	26	22.554	1.897	58501	14	14.090	7.300	58573*	44	17.831	13.240
58302*	53	4.017	18.851	58374	12	15.874	24.310	58430	30	25.647	1.459	58502	19	15.824	7.540	58574	31	23.222	13.966
58303	22	8.950	18.604	58375	33	16.032	24.137	58431	13	9.906	2.877	58503	18	16.123	7.518	58575	30	23.688	13.841
58304	27	10.866	18.330	58376	30	16.844	24.820	58432	14	11.250	2.686	58504	10	24.084	7.598	58576	17	24.171	13.043
58305	10	14.300	18.622	58377	11	19.140	24.506	58433	14	12.360	2.469	58505	14	25.910	7.370	58577*	64	24.660	13.611
58306	18	14.908	18.670	58378	21	22.155	24.891	58434	36	13.528	2.656	58506	30	1.486	8.552	58578	21	4.600	14.636
58307*	37	18.450	18.571	58379	10	23.311	24.148	58435	15	16.793	2.002	58507	16	1.928	8.950	58579	18	4.823	14.472
58308	27	18.786	18.930	58380	26	24.844	24.590	58436	10	17.390	2.883	58508*	42	3.916	8.040	58580	12	5.676	14.774
58309	34	1.790	19.930	58381	31	5.236	25.476	58437	10	18.070	2.429	58509	13	6.666	8.830	58581	11	16.510	14.610
58310	31	1.832	19.248	58382	43	5.466	25.675	58438	15	19.626	2.263	58510	21	10.294	8.564	58582	20	19.666	14.830
58311	12	10.142	19.957	58383*	46	6.377	25.176	58439	20	21.556	2.968	58511	20	11.123	8.626	58583	30	20.354	14.222
58312	10	16.206	19.860	58384	23	8.286	25.884	58440	12	21.950	2.633	58512	13	14.233	8.085	58584	27	20.394	14.922
58313*	43	18.944	19.895	58385	15	9.782	25.244	58441	39	22.346	2.289	58513	27	20.339	8.531	58585	14	20.760	14.010
58314	32	19.654	19.008	58386	15	10.302	25.460	58442	13	22.950	2.958	58514	10	21.277	8.578	58586	14	21.640	14.436
58315	33	22.191	19.658	58387	25	14.176	25.790	58443*	59	24.833	2.399	58515	21	22.390	8.950	58587	12	22.770	14.962
58316	31	22.372	19.445	58388	20	14.268	25.544	58444	18	25.104	2.599	58516	27	24.820	8.033	58588*	50	23.034	14.240
58317	30	23.662	19.163	58389	28	15.156	25.286	58445	14	2.473	3.116	58517	13	1.024	9.232	58589	14	23.063	14.077
58318*	50	24.706	19.446	58390	10	15.552	25.202	58446	26	5.503	3.153	58518*	48	3.522	9.880	58590	11	1.348	15.498
58319	18	24.859	19.558	58391	21	15.634	25.560	58447	13	6.874	3.754	58519	14	4.139	9.406	58591	45	1.778	15.880
58320	11	1.205	20.157	58392	15	23.636	25.736	58448	26	8.300	3.947	58520	17	5.503	9.159	58592	18	5.614	15.800
58321	10	4.580	20.628					58449	28	10.104	3.497	58521	13	5.773	9.234	58593	15	6.010	15.844
58322	10	8.370	20.700					58450	32	11.592	3.760	58522	30	6.831	9.534	58594*	43	9.496	15.794
58323	39	10.450	20.558					58451	12	12.236	3.848	58523	27	6.854	9.340	58595	10	10.014	15.400
58324	10	12.303	20.522					58452	10	13.980	3.924	58524	22	7.407	9.488	58596	18	11.798	15.356
58325	44	13.276	20.771					58453	24	15.106	3.942	58525*	72	13.467	9.200	58597	14	16.493	15.524
58326	10	16.038	20.820					58454	17	16.625	3.966	58526*	39	16.862	9.286	58598	17	20.456	15.226
58327*	63	20.914	20.094					58455	30	19.589	3.728	58527	10	16.953	9.016	58599	15	21.354	15.792
58328	19	0.168	21.417					58456	10	20.059	3.690	58528	14	21.178	9.364	58600	27	23.650	15.634
58329	31	2.807	21.916					58457	21	21.314	3.978	58529	10	21.410	9.608	58601	16	23.704	15.512
58330	33	4.620	21.604					58458*	45	21.560	3.882	58530	14	21.460	9.802	58602	25	2.520	16.850
58331	32	7.140	21.334					58459	13	22.166	3.117	58531	12	23.257	9.065	58603	11	6.866	16.853
58332	30	10.460	21.060					58460	38	22.916	3.403	58532	13	23.366	9.653	58604	28	12.528	16.208
58333	12	14.739	21.305					58461	28	23.086	3.063	58533	16	4.184	10.448	58605	28	13.016	16.508
58334	17	15.528	21.906					58462*	48	0.591	4.774	58534	11	4.190	10.142	58606	13	18.574	16.142
58335	10	17.431	21.062					58463	30	2.074	4.465	58535	10	4.591	10.978	58607	12	20.740	16.910
58336	16	18.105	21.800					58464	21	10.632	4.408	58536	17	8.080	10.450	58608	10	23.315	16.154
58337	17	22.809	21.600					58465	14	15.317	4.856	58537	18	13.994	10.030	58609	38	25.978	16.030
58338	23	25.194	21.044					58466	12	15.599	4.682	58538	11	15.137	10.042	58610	20	1.614	17.566
58339	17	0.794	22.916					58467	15	18.984	4.850	58539	27	15.662	10.474	58611	12	4.246	17.248
58340	25	4.270	22.051					58468	18	21.000	4.818	58540	12	16.502	10.350	58612	30	4.762	17.910
58341*	73	6.786	22.624					58469*	48	21.664	4.857	58541	33	17.348	10.776	58613	11	5.930	17.684
58342	12	7.064	22.948					58470	12	22.077	4.624	58542	13	19.286	10.430	58614	17	6.595	17.214
58343	10	7.131	22.808					58471	10	24.044	4.178	58543	24	20.886	10.194	58615	11	7.720	17.360
58344	16	7.630	22.126					58472	30	24.599	4.364	58544	14	22.337	10.447	58616	29	8.242	17.324
58345	10	9.779	22.502					58473	11	25.132	4.035	58545	26	23.698	10.846	58617	25	9.699	17.582
58346	34	10.135	22.770					58474*	49	0.298	5.198	58546	28	24.414	10.552	58618	10	12.598	17.644
58347	34	11.336	22.909					58475	11	1.018	5.030	58547*	69	5.483	11.478	58619	27	12.966	17.117
58348	18	12.586	22.107					58476*	65	3.549	5.180	58548	17	8.694	11.180	58620	14	14.258	17.579
58349	34	13.036	22.713					58477	17	4.060	5.138	58549	12	11.429	11.092	58621*	48	14.378	17.450
58350	12	13.529	22.226					58478	12	4.078	5.095	58550	27	11.542	11.502	58622	35	14.446	17.052
58351	11	14.190	22.682					58479	15	10.210	5.168	58551	23	12.348	11.064	58623	27	16.788	17.948
58352	14	16.115	22.884					58480	16	11.313	5.812	58552	27	13.380	11.674	58624	15	20.031	17.898
58353	10	19.471	22.533					58481	25	11.551	5.817	58553	14	16.928	11.164	58625	41	20.876	17.210
58354	12	23.750	22.326					58482	24	14.380	5.106	58554	13	23.192	11.600	58626	12	22.922	17.675
58355	38	25.954	22.154					58483	20	16.147	5.238	58555	26	24.870	11.000	58627	16	22.986	17.974
58356	36	5.610	23.652					58484	12	16.226	5.083	58556	10	25.269	11.173	58628	25	25.518	17.322
58357	17	7.066	23.014					58485	26	19.390	5.700	58557	16	3.632	12.813	58629	10	6.809	18.070
58358	34	8.776	23.419					58486	11	19.508	5.376	58558	23	5.376	12.242	58630	31	6.890	18.722
58359	21	9.446	23.880					58487	18	21.947	5.827	58559	30	12.094	12.988	58631	13	7.850	18.810
58360	25	15.134	23.674					58488	11	0.320	6.370	58560	42	12.818	12.392	58632	19	8.408	18.764
58361	28	19.868	23.612					58489	14	1.880	6.087	58561	12	14.656	12.170	58633	15	9.948	18.322
58362	13	24.506	23.750					58490	18	2.796	6.505	58562*	78	16.314	12.586	58634	21	10.224	18.543
58363	26	5.466	24.912					58491*	83	5.516	6.516	58563	23	16.889	12.980	58635	30	10.920	18.936
58364	20	7.128	24.339					58492	41	8.027	6.192	58564	13	17.342	12.260	58636*	50	15.175	18.275
58365	11	8.156	24.692					58493	26	10.351	6.138	58565	19	20.390	12.561	58637	10	19.336	18.735
58366	20	8.939	24.520					58494	37	10.367	6.146	58566	22	22.964	12.253	58638	16	20.841	18.390
58367																			



58644	22	0.495	19.746	58716	24	12.308	24.570	58779	17	18.810	2.240	58851	18	21.886	8.626	58923	9	0.956	15.337
58645	19	1.780	19.440	58717	31	13.591	24.148	58780	35	20.742	2.841	58852	9	24.634	8.808	58924	19	1.844	15.994
58646*	52	2.825	19.708	58718	12	15.599	24.671	58781	34	0.946	3.775	58853	15	0.497	9.332	58925	16	1.898	15.871
58647	12	2.982	19.815	58719	13	16.526	24.685	58782	20	1.112	3.432	58854	8	1.363	9.432	58926	11	7.147	15.821
58648	43	6.675	19.440	58720	10	17.653	24.682	58783	30	4.129	3.476	58855	8	4.284	9.456	58927	9	15.139	15.018
58649	12	6.856	19.656	58721	25	17.790	24.574	58784	8	6.438	3.776	58856	18	5.444	9.176	58928*	46	16.368	15.160
58650	20	8.088	19.702	58722	12	19.692	24.574	58785	8	6.958	3.440	58857	9	5.583	9.707	58929	20	16.600	15.444
58651	17	9.125	19.236	58723*	46	21.096	24.496	58786	19	9.603	3.743	58858	18	8.000	9.778	58930	11	19.722	15.814
58652	10	11.196	19.096	58724	14	22.032	24.189	58787	15	11.890	3.966	58859	11	14.355	9.094	58931*	50	20.136	15.746
58653	18	12.596	19.425	58725	13	22.190	24.410	58788	16	12.306	3.834	58860	10	14.530	9.836	58932*	51	20.796	15.815
58654	32	13.358	19.365	58726	10	0.373	25.194	58789	19	13.238	3.988	58861	18	15.196	9.102	58933	21	22.995	15.925
58655	27	13.878	19.966	58727	33	5.884	25.762	58790	29	15.090	3.792	58862	10	15.534	9.557	58934	17	23.684	15.822
58656	12	14.720	19.254	58728	18	6.564	25.954	58791	12	17.730	3.008	58863	33	17.909	9.182	58935	17	24.766	15.986
58657	27	15.890	19.358	58729	17	7.233	25.590	58792	19	18.419	3.382	58864	11	21.820	9.159	58936*	34	4.177	16.360
58658	26	16.866	19.588	58730	19	8.124	25.600	58793	35	18.931	3.386	58865	21	22.657	9.569	58937	14	6.114	16.107
58659	20	19.194	19.330	58731	23	8.228	25.355	58794	9	18.958	3.614	58866	15	23.515	9.828	58938	14	9.004	16.867
58660	12	20.510	19.228	58732	23	10.510	25.890	58795	18	22.512	3.000	58867	31	24.684	9.136	58939	18	14.656	16.380
58661	16	23.526	19.286	58733	38	14.572	25.972	58796	9	23.402	3.808	58868	16	25.482	9.071	58940	21	14.916	16.878
58662	21	23.748	19.882	58734	11	14.599	25.114	58797	24	23.591	3.642	58869	11	0.464	10.826	58941	13	15.473	16.096
58663	14	24.840	19.388	58735	18	14.884	25.028	58798	16	24.909	3.368	58870	21	2.541	10.904	58942	10	16.134	16.294
58664	17	4.304	20.420	58736	10	15.222	25.458	58799	24	2.642	4.712	58871	20	4.587	10.086	58943	16	20.636	16.527
58665	13	7.034	20.206	58737	14	18.832	25.048	58800	12	3.170	4.377	58872	19	8.163	10.482	58944	21	21.615	16.006
58666	12	9.170	20.386					58801	27	7.363	4.807	58873	11	11.038	10.151	58945	9	3.698	17.164
58667	18	13.374	20.928					58802	27	11.806	4.366	58874	12	17.517	10.682	58946	19	3.736	17.658
58668	31	14.482	20.854					58803	19	14.592	4.922	58875	18	17.529	10.166	58947	9	3.858	17.892
58669	29	15.288	20.294					58804*	41	18.325	4.308	58876*	58	19.829	10.484	58948	15	11.052	17.533
58670	22	15.350	20.786					58805	9	20.408	4.480	58877	14	20.892	10.912	58949	27	11.872	17.797
58671	12	17.363	20.782					58806	9	21.226	4.294	58878	14	22.929	10.538	58950	15	12.054	17.684
58672	34	21.972	20.416					58807	18	22.074	4.396	58879	17	22.932	10.014	58951	10	12.512	17.729
58673	28	22.795	20.208					58808	18	23.770	4.972	58880	13	24.736	10.604	58952*	46	13.837	17.186
58674	12	0.970	21.892					58809	20	24.085	4.282	58881	12	25.890	10.210	58953*	36	23.420	17.426
58675	15	3.344	21.298					58810	20	5.258	5.130	58882	18	1.828	11.208	58954	23	25.376	17.234
58676	16	4.832	21.465					58811	11	6.077	5.337	58883	21	3.002	11.346	58955	12	0.313	18.802
58677	15	6.866	21.594					58812	11	6.087	5.161	58884	17	4.948	11.977	58956	14	1.214	18.343
58678	25	9.131	21.904					58813	19	6.177	5.180	58885	8	8.299	11.504	58957	13	6.243	18.824
58679*	52	14.254	21.148					58814	16	8.485	5.200	58886	14	11.267	11.452	58958	15	6.266	18.327
58680	11	14.840	21.685					58815	10	11.376	5.326	58887	10	11.462	11.528	58959	27	6.697	18.244
58681*	86	15.428	21.275					58816*	37	15.392	5.536	58888	10	17.544	11.012	58960	14	6.752	18.626
58682	21	15.950	21.380					58817*	30	15.844	5.456	58889	13	21.645	11.216	58961	11	7.202	18.378
58683	19	17.124	21.630					58818	11	20.692	5.190	58890	13	22.408	11.850	58962	28	14.172	18.294
58684*	49	18.049	21.704					58819	16	20.980	5.317	58891	13	24.060	11.940	58963	16	18.122	18.328
58685	24	19.270	21.171					58820	13	21.772	5.176	58892	18	1.115	12.622	58964	9	19.755	18.648
58686	38	20.800	21.958					58821	16	0.012	6.211	58893	12	7.053	12.752	58965	8	25.138	18.454
58687	20	21.806	21.650					58822	15	4.437	6.164	58894	20	7.318	12.834	58966	12	1.772	19.648
58688	11	1.920	22.604					58823	17	7.507	6.164	58895	15	7.630	12.386	58967	10	3.087	19.732
58689	33	4.118	22.390					58824	16	7.907	6.280	58896	18	9.325	12.883	58968	20	3.789	19.249
58690	12	10.430	22.236					58825	9	8.635	6.431	58897	17	14.097	12.480	58969	20	13.160	19.312
58691	10	10.710	22.056					58826	13	8.870	6.164	58898	18	17.120	12.346	58970	18	13.694	19.896
58692	17	14.706	22.070					58827	35	11.968	6.526	58899	13	24.754	12.552	58971	15	14.646	19.180
58693	21	16.592	22.082					58828	20	12.812	6.844	58900	9	25.657	12.294	58972	17	21.423	19.966
58694	22	18.290	22.636					58829	18	12.816	6.756	58901	14	2.333	13.397	58973	29	0.232	20.798
58695	12	18.944	22.202					58830	39	13.062	6.817	58902*	52	2.822	13.958	58974	23	1.050	20.579
58696*	45	19.215	22.802					58831	17	15.024	6.824	58903	12	4.352	13.944	58975	15	2.000	20.242
58697	16	20.735	22.411					58832	16	15.345	6.692	58904	31	5.870	13.010	58976	9	3.073	20.688
58698*	47	23.381	22.089					58833	8	20.516	6.398	58905	21	7.645	13.117	58977	9	5.122	20.958
58699	10	25.152	22.890					58834	14	21.708	6.711	58906	10	8.690	13.921	58978	20	5.708	20.904
58700	16	4.680	23.904					58835	23	23.414	6.597	58907	25	12.760	13.836	58979	17	9.315	20.460
58701	24	10.294	23.114					58836	21	25.808	6.054	58908	17	13.796	13.591	58980	13	10.369	20.299
58702	14	10.425	23.706					58837	12	3.994	7.703	58909	10	15.000	13.406	58981	21	10.450	20.344
58703	13	12.017	23.244					58838	12	17.060	7.658	58910	9	18.816	13.295	58982	20	13.422	20.668
58704	34	14.082	23.646					58839	34	17.342	7.004	58911*	47	22.536	13.632	58983	18	15.027	20.649
58705	19	14.768	23.541					58840	11	18.574	7.722	58912	20	24.127	13.874	58984	17	18.730	20.737
58706	34	14.784	23.781					58841	11	20.377	7.582	58913	9	24.585	13.201	58985	25	19.097	20.516
58707	14	16.270	23.195					58842	12	23.016	7.874	58914*	40	1.210	14.609	58986	23	20.791	20.676
58708	35	18.906	23.868					58843	20	2.912	8.380	58915	10	1.238	14.446	58987	9	21.274	20.778
58709	12	20.823	23.402					58844	16	6.293	8.368	58916	24	1.397	14.334	58988	11	24.002	20.052
58710	19	25.310	23.584					58845	17	7.293	8.630	58917	23	1.858	14.202	58989	14	8.433	21.559
58711	21	25.476	23.081					58846*	38	14.047									



58995	29	19.790	21.422	59056	35	20.314	0.254	59128	38	7.285	7.781	59200	12	21.924	12.113	59272	12	24.000	20.164
58996	20	23.346	21.959	59057	36	21.286	0.736	59129	26	7.972	7.583	59201	20	23.545	12.112	59273	32	2.154	21.774
58997	26	23.992	21.596	59058	12	24.295	0.430	59130	16	14.370	7.609	59202	24	24.718	12.673	59274	19	2.198	21.419
58998	17	24.042	21.244	59059*	44	0.604	1.495	59131	13	19.110	7.668	59203	34	25.660	12.956	59275	24	2.848	21.508
58999	19	24.692	21.340	59060	12	1.615	1.422	59132	18	21.006	7.986	59204*	58	0.590	13.830	59276	12	13.680	21.398
59000*	41	1.662	22.454	59061	22	4.583	1.800	59133	11	21.290	7.598	59205*	53	10.349	13.244	59277	29	19.985	21.546
59001	23	5.180	22.834	59062*	43	4.965	1.016	59134	20	21.420	7.266	59206	35	15.763	13.440	59278	13	20.860	21.180
59002*	41	8.362	22.720	59063	12	5.828	1.151	59135	21	21.886	7.984	59207	13	19.024	13.660	59279	12	21.015	21.264
59003	10	9.712	22.681	59064	13	6.867	1.296	59136	20	23.745	7.860	59208	10	19.718	13.068	59280	11	21.420	21.202
59004	23	15.247	22.804	59065	11	8.758	1.212	59137	12	0.996	8.066	59209	18	25.060	13.519	59281	13	24.924	21.868
59005	9	16.055	22.020	59066	18	8.975	1.088	59138	28	12.216	8.418	59210	12	0.347	14.500	59282	10	1.495	22.718
59006	15	16.272	22.027	59067	18	10.906	1.258	59139	25	12.560	8.267	59211	10	2.125	14.635	59283	24	1.510	22.145
59007	20	17.351	22.604	59068	40	11.215	1.356	59140	22	16.334	8.026	59212	21	2.185	14.052	59284	24	2.466	22.372
59008	32	18.182	22.498	59069	11	14.056	1.874	59141	12	17.344	8.079	59213	17	5.100	14.131	59285	13	3.072	22.442
59009	10	18.485	22.470	59070	16	14.568	1.206	59142	11	17.518	8.658	59214	18	5.402	14.802	59286	22	4.446	22.240
59010	10	19.958	22.121	59071	13	18.155	1.156	59143	12	18.520	8.526	59215*	51	7.568	14.605	59287	22	5.024	22.260
59011	11	20.072	22.967	59072	40	18.810	1.714	59144	13	18.670	8.830	59216	13	11.587	14.668	59288	44	5.072	22.902
59012	18	24.298	22.199	59073	20	20.530	1.130	59145	12	18.770	8.985	59217	25	24.964	14.846	59289	15	5.584	22.259
59013	13	3.613	23.923	59074	26	22.372	1.329	59146	20	19.854	8.296	59218	16	25.590	14.550	59290	14	6.906	22.076
59014	15	3.772	23.418	59075	14	24.408	1.750	59147	14	20.765	8.750	59219	20	5.158	15.008	59291	10	8.514	22.880
59015	11	6.082	23.282	59076	13	3.184	2.858	59148	42	22.325	8.767	59220	16	9.636	15.102	59292	21	11.924	22.756
59016	9	13.579	23.761	59077	22	3.940	2.612	59149	12	22.352	8.258	59221	17	12.915	15.435	59293	26	13.386	22.630
59017	31	17.508	23.137	59078	16	4.140	2.858	59150	23	22.402	8.954	59222	35	12.977	15.976	59294	20	17.605	22.189
59018	23	18.094	23.766	59079	11	4.224	2.794	59151	20	22.537	8.595	59223	12	14.442	15.628	59295	20	17.990	22.954
59019*	89	19.255	23.554	59080	20	7.815	2.776	59152	10	22.600	8.754	59224	18	18.999	15.813	59296	19	19.536	22.080
59020	10	24.225	23.559	59081	36	9.290	2.236	59153	11	23.020	8.642	59225	25	20.936	15.402	59297	14	19.746	22.392
59021	31	4.802	24.523	59082	15	12.175	2.998	59154	20	25.644	8.555	59226	44	22.008	15.036	59298	28	19.910	22.634
59022	19	9.964	24.240	59083	20	12.615	2.255	59155	23	0.657	9.766	59227	24	1.080	16.116	59299	23	24.828	22.090
59023	22	10.132	24.066	59084	20	18.987	2.922	59156	32	2.677	9.306	59228	11	1.769	16.004	59300	13	25.915	22.657
59024	13	12.173	24.900	59085	21	21.079	2.882	59157	10	3.020	9.505	59229	16	3.052	16.152	59301	13	25.930	22.098
59025	20	15.584	24.165	59086	20	0.425	3.200	59158	20	3.475	9.230	59230	10	4.315	16.628	59302	13	2.409	23.533
59026	17	17.534	24.700	59087	28	1.514	3.828	59159	10	3.537	9.306	59231	10	8.395	16.053	59303	12	3.705	23.657
59027	32	20.067	24.931	59088	22	2.826	3.535	59160	31	4.564	9.722	59232	13	12.208	16.266	59304	30	4.900	23.065
59028	11	24.770	24.986	59089	30	4.655	3.195	59161	14	4.858	9.365	59233	18	13.790	16.240	59305	21	7.930	23.537
59029	29	25.803	24.932	59090	41	4.790	3.048	59162	27	5.534	9.374	59234	11	16.201	16.784	59306	14	14.553	23.033
59030	17	5.253	25.156	59091	17	5.000	3.555	59163*	68	8.221	9.166	59235	12	16.880	16.064	59307	14	17.368	23.080
59031	12	5.698	25.292	59092	34	5.115	3.952	59164	39	12.895	9.940	59236*	44	1.522	17.610	59308	29	17.453	23.603
59032	12	8.160	25.850	59093	20	11.544	3.672	59165*	63	12.967	9.138	59237	25	3.480	17.392	59309*	38	18.692	23.730
59033	11	16.294	25.084	59094	28	16.878	3.186	59166*	64	14.155	9.613	59238	17	5.373	17.334	59310	26	19.810	23.976
59034	36	19.482	25.852	59095	16	18.226	3.234	59167	16	21.630	9.253	59239	19	6.236	17.130	59311	12	21.665	23.002
59035	23	19.720	25.724	59096	13	19.102	3.122	59168	10	22.458	9.488	59240	11	6.360	17.005	59312	15	24.032	23.586
59036	20	21.019	25.647	59097	18	0.006	4.600	59169	32	22.497	9.412	59241	23	14.020	17.267	59313	14	25.449	23.444
59037	53	22.570	25.902	59098	24	2.013	4.460	59170	15	23.792	9.752	59242	11	14.395	17.108	59314	21	4.655	24.140
59038	40	25.035	25.627	59099	12	7.050	4.634	59171	22	0.940	10.206	59243	14	15.801	17.265	59315	15	8.105	24.954
59039	14	25.732	25.811	59100	18	11.898	4.020	59172	14	0.943	10.730	59244	21	18.604	17.322	59316	13	8.676	24.525
<div>R.A. 14<sup>h</sup> 4<sup>m</sup></div> <div>Plate 1658, 1920 Apr 20</div> <div>Provisional Constants</div> <div><div>A</div><div>B</div><div>C</div><div>-01768</div><div>+01422</div><div>-0952</div></div> <div><div>D</div><div>E</div><div>F</div><div>-01429</div><div>-01756</div><div>-1898</div></div> <div>Mag = 16.8 - 1.05√<i>d</i></div>				59101	12	13.260	4.736	59173	15	1.520	10.012	59245	15	21.172	17.877	59317*	60	12.006	24.976
				59102	11	14.184	4.872	59174	18	2.752	10.774	59246	13	5.034	18.208	59318	26	12.282	24.293
				59103	20	14.805	4.954	59175	18	4.028	10.608	59247	17	6.148	18.374	59319	26	12.744	24.836
				59104	20	14.900	4.667	59176	13	6.937	10.045	59248	21	8.245	18.055	59320	25		



R.A. 14 <sup>h</sup> 12 <sup>m</sup>				R.A. 14 <sup>h</sup> 20 <sup>m</sup>			
Plate 1659, 1920 Apr. 20				Plate 1663, 1920 Apr. 21			
Provisional Constants.				Provisional Constants			
A	B	C		A	B	C	
-01759	+00978	-1673		-01760	+01547	-0984	
D	E	F		D	E	F	
-01010	-01753	-0009		-01579	-01746	-1074	
Mag = 16.3 - 1.05√d				Mag = 16.6 - 1.05√d			
No.	d	x	y	No.	d	x	y
59351	16	2.059	0.928	59651	13	0.928	0.248
59352*	45	11.909	0.949	59652	12	4.048	0.870
59353	28	15.996	0.695	59653	18	4.394	0.694
59354	36	16.004	0.722	59654	26	4.860	0.297
59355	34	18.834	0.002	59655	13	5.880	0.070
59356	42	19.800	0.567	59656	16	5.930	0.633
59357	35	20.939	0.429	59657	25	6.406	0.878
59358	23	21.164	0.254	59658	11	6.994	0.965
59359	11	23.030	0.130	59659	27	8.420	0.535
59360	32	0.140	1.842	59660	10	8.940	0.212
59361*	42	4.418	1.197	59661	25	10.146	0.831
59362	34	4.702	1.430	59662	16	10.189	0.257
59363	22	5.164	1.650	59663	10	10.397	0.218
59364	24	8.821	1.246	59664	34	12.130	0.874
59365	10	10.558	1.492	59665	9	12.640	0.621
59366	10	10.620	1.859	59666	10	17.643	0.459
59367	36	11.669	1.570	59667	10	22.678	0.869
59368	35	14.987	1.108	59668	12	24.540	0.207
59369	37	17.515	1.580	59669	13	25.712	0.640
59370	51	25.419	1.231	59670	10	0.310	1.776
59371	16	2.180	2.249	59671	52	3.328	1.307
59372	21	8.049	2.570	59672*	59	4.051	1.110
59373	11	8.939	2.973	59673*	41	11.046	1.940
59374	27	12.721	2.128	59674	11	14.557	1.589
59375	38	14.955	2.685	59675	26	14.940	1.956
59376	31	15.953	2.648	59676	14	17.895	1.330
59377	10	16.096	2.713	59677	14	18.636	1.910
59378	17	17.770	2.589	59678*	75	20.157	1.940
59379	21	17.784	2.507	59679	11	0.000	2.381
59380	24	19.252	2.170	59680	11	2.130	2.894
59381	33	20.416	2.524	59681	13	7.330	2.524
59382	16	22.064	2.248	59682	15	8.350	2.746
59383	33	7.586	3.686	59683	29	8.490	2.235
59384	12	8.944	3.606	59684	30	9.351	2.632
59385	10	9.502	3.538	59685	25	9.473	2.320
59386	14	11.310	3.993	59686	17	13.417	2.766
59387	32	13.408	3.000	59687	16	14.784	2.574
59388	19	14.152	3.478	59688	19	14.950	2.002
59389	34	14.614	3.328				
59390	23	14.790	3.362				
59391	15	16.366	3.422				
59392	28	17.382	3.720				
59393	24	17.689	3.736				
59394	10	18.235	3.924				
59395	31	18.498	3.712				
59396*	44	24.358	3.530				
59397	10	4.224	4.826				
59398	13	4.909	4.123				
59399*	44	12.790	4.332				
59400	39	12.838	4.308				
59401	32	13.444	4.359				
59402	32	14.746	4.156				
59403	10	22.016	4.354				
59404	20	25.666	4.028				
59405	34	3.523	5.983				
59406	13	7.751	5.350	59478	28	1.405	12.616
59407	36	10.698	5.679	59479	34	2.161	12.208
59408	16	11.140	5.608	59480	10	4.698	12.767
59409	15	13.178	5.482	59481	16	5.002	12.349
59410	28	15.138	5.382	59482	33	17.850	12.034
59411	20	15.776	5.093	59483	24	19.117	12.612
59412	27	17.565	5.600	59484	31	2.581	13.168
59413	14	18.081	5.436	59485	36	3.526	13.442
59414	14	18.634	5.860	59486	12	10.466	13.022
59415*	68	18.797	5.689	59487	17	15.912	13.449
59416	12	20.230	5.969	59488	10	18.804	13.042
59417	11	22.418	5.718	59489	38	20.961	13.118
59418	12	22.890	5.118	59490	10	22.116	13.650
59419	17	23.381	5.323	59491	35	25.432	13.704
59420	19	24.323	5.430	59492	10	2.265	14.590
59421	24	25.902	5.652	59493	22	2.931	14.010
59422	15	3.764	6.440	59494	13	7.655	14.352
59423	25	16.420	6.031	59495	22	22.104	14.723
59424	11	16.763	6.672	59496*	49	24.088	14.240
59425	31	20.490	6.344	59497	36	24.946	14.790
59426	24	20.861	6.622	59498	27	2.848	15.339
59427	20	23.113	6.524	59499	20	3.471	15.038
59428	19	25.220	6.352	59500	26	5.186	15.240
59429	10	25.706	6.681	59501	19	5.611	15.512
59430	24	0.673	7.334	59502	10	8.503	15.792
59431*	68	5.190	7.994	59503	16	12.200	15.010
59432	28	6.918	7.130	59504	17	13.510	15.593
59433	11	13.332	7.297	59505	11	17.737	15.370
59434*	41	20.060	7.044	59506	24	17.778	15.764
59435	36	21.940	7.110	59507	29	22.928	15.300
59436	18	24.867	7.479	59508	23	23.344	15.880
59437	16	0.180	8.772	59509	10	23.776	15.925
59438	23	1.568	8.362	59510	21	6.334	16.360
59439	10	3.214	8.832	59511	18	8.126	16.600
59440	12	5.467	8.688	59512	30	9.926	16.201
59441	10	5.928	8.168	59513*	65	11.685	16.470
59442	22	7.878	8.520	59514*	102	13.024	16.958
59443	11	11.915	8.432	59515	23	14.182	16.990
59444	22	16.084	8.069	59516	28	17.560	16.250
59445	12	16.504	8.140	59517	18	17.836	16.846
59446	23	17.970	8.862	59518	31	18.080	16.140
59447	9	20.216	8.198	59519	10	19.006	16.119
59448	16	23.849	8.336	59520	19	20.080	16.267
59449	43	0.157	9.280	59521	16	21.909	16.409
59450	28	0.236	9.467	59522	10	22.186	16.364
59451	34	0.334	9.924	59523	16	22.562	16.646
59452	25	0.366	9.109	59524	33	24.666	16.861
59453	12	0.851	9.150	59525	12	25.204	16.150
59454	24	3.472	9.042	59526	31	4.580	17.490
59455	12	3.994	9.500	59527	19	8.584	17.052
59456	26	4.522	9.379	59528	36	10.346	17.796
59457	16	11.712	9.894	59529	12	10.630	17.678
59458	21	17.604	9.606	59530	12	16.170	17.602
59459	21	23.760	9.431	59531	23	18.378	17.202
59460	20	1.633	10.254	59532	36	18.549	17.371
59461	18	14.244	10.400	59533*	37	22.149	17.891
59462	21	17.762	10.782	59534	17	23.764	17.550
59463	9	22.583	10.422	59535	31	5.143	18.690
59464	29	24.688	10.602	59536	12	6.976	18.327
59465	10	25.754	10.820	59537	11	7.054	18.532
59466	13	1.975	11.576	59538	12	7.944	18.071
59467	10	10.343	11.052	59539	21	8.810	18.813
59468*	49	11.310	11.086	59540	24	12.643	18.762
59469*	44	12.344	11.062	59541	10	16.177	18.858
59470	12	17.510	11.334	59542	13	16.992	18.582
59471	15	17.940	11.910	59543	29	17.302	18.470
59472	36	18.176	11.164	59544	10	20.768	18.582
59473	25	18.390	11.199	59545	28	20.859	18.540
59474	42	21.770	11.007	59546	23	1.125	19.330
59475	14	24.506	11.107	59547	20	1.728	19.784
59476	18	25.715	11.212	59548	21	5.601	19.730
59477	26	0.636	12.182	59549	13	8.260	19.134



59689	16	17.544	2.498	59761	10	20.539	6.061	59833	9	4.354	11.194	59905	39	9.570	15.720	59977	9	2.492	20.314
59690	10	18.877	2.013	59762	18	22.189	6.858	59834	12	6.374	11.462	59906	14	11.120	15.536	59978	26	7.998	20.060
59691	14	20.075	2.630	59763*	46	24.339	6.624	59835	10	7.571	11.730	59907	15	12.524	15.722	59979	39	13.750	20.390
59692	10	0.166	3.724	59764	13	2.314	7.429	59836	14	8.826	11.978	59908	16	13.090	15.120	59980*	75	13.794	20.420
59693*	48	2.310	3.625	59765	17	2.894	7.562	59837	40	12.868	11.836	59909	17	13.572	15.884	59981	37	16.398	20.154
59694	10	3.330	3.920	59766	11	5.578	7.744	59838	10	20.420	11.350	59910	23	19.190	15.330	59982	14	18.052	20.306
59695	10	5.450	3.720	59767	15	7.254	7.670	59839	10	22.675	11.219	59911	34	19.221	15.184	59983	14	18.730	20.980
59696	25	5.469	3.720	59768*	33	7.800	7.214	59840	14	25.081	11.736	59912	29	19.443	15.746	59984	13	19.710	20.764
59697	29	5.615	3.026	59769	14	11.086	7.784	59841	31	6.630	12.409	59913	12	19.707	15.110	59985	48	21.436	20.125
59698	10	6.944	3.938	59770	30	12.935	7.106	59842	13	8.583	12.652	59914	22	20.277	15.720	59986	23	21.910	20.104
59699	10	7.390	3.560	59771*	65	15.335	7.318	59843	10	13.100	12.038	59915	34	22.636	15.854	59987	29	0.630	21.863
59700	27	7.770	3.838	59772	33	15.600	7.750	59844*	64	13.264	12.216	59916	9	23.898	15.419	59988	24	3.340	21.968
59701	19	12.325	3.928	59773	19	15.943	7.024	59845	10	14.720	12.120	59917	11	24.542	15.338	59989	14	4.504	21.880
59702	10	14.270	3.160	59774	14	19.070	7.460	59846	30	17.804	12.670	59918	16	0.100	16.546	59990	16	8.387	21.035
59703	18	14.834	3.059	59775	11	21.594	7.130	59847	15	21.858	12.724	59919	11	0.378	16.494	59991*	47	16.722	21.764
59704	10	15.680	3.820	59776	13	22.900	7.260	59848	13	22.080	12.488	59920	15	0.758	16.770	59992	10	18.436	21.734
59705	12	16.480	3.708	59777	15	1.890	8.438	59849	11	22.214	12.875	59921	12	1.958	16.026	59993	27	19.892	21.790
59706	33	17.458	3.672	59778	11	4.158	8.674	59850	9	22.700	12.718	59922	29	2.865	16.948	59994	14	19.926	21.995
59707	11	17.682	3.650	59779	10	4.496	8.720	59851	14	22.880	12.950	59923	13	3.390	16.226	59995	14	21.360	21.062
59708	39	18.940	3.570	59780	15	4.551	8.863	59852	12	22.929	12.601	59924	10	4.669	16.664	59996	9	21.737	21.477
59709	10	19.560	3.143	59781	13	5.310	8.494	59853	14	23.278	12.202	59925	12	6.474	16.466	59997	19	23.812	21.899
59710	17	23.396	3.593	59782	18	5.984	8.918	59854	10	24.475	12.950	59926	27	6.725	16.226	59998	29	25.372	21.914
59711	27	23.766	3.344	59783	15	7.782	8.002	59855	31	25.627	12.792	59927	13	6.952	16.246	59999	10	25.378	21.013
59712	10	2.518	4.254	59784	13	7.990	8.672	59856	46	25.990	12.936	59928	11	7.377	16.288	60000	9	25.534	21.169
59713	19	3.630	4.100	59785	10	8.913	8.794	59857	11	0.262	13.782	59929	17	7.931	16.594	60001	20	25.659	21.306
59714*	76	4.398	4.383	59786	20	9.191	8.658	59858	32	3.572	13.776	59930	32	18.585	16.164	60002	18	0.151	22.436
59715	20	5.976	4.565	59787	26	12.354	8.208	59859	27	7.790	13.694	59931	26	18.986	16.793	60003	27	1.050	22.040
59716	24	10.353	4.000	59788	25	13.630	8.667	59860	25	7.828	13.327	59932	31	19.728	16.480	60004	19	1.736	22.806
59717	13	13.257	4.503	59789	19	13.640	8.668	59861	21	8.668	13.803	59933	34	20.818	16.996	60005	10	10.986	22.694
59718*	10	13.372	4.710	59790	20	14.390	8.714	59862	48	11.442	13.912	59934	24	24.490	16.474	60006	23	11.091	22.924
59719*	13	15.727	4.620	59791	27	14.760	8.203	59863	10	11.450	13.582	59935	33	25.763	16.558	60007	13	12.150	22.831
59720*	13	17.984	4.836	59792	11	16.190	8.232	59864	11	15.717	13.356	59936	16	1.976	17.652	60008	15	13.463	22.039
59721*	55	18.300	4.858	59793	32	16.896	8.588	59865	17	15.834	13.175	59937	16	4.536	17.600	60009	14	13.569	22.879
59722	10	18.936	4.603	59794	14	17.320	8.109	59866	16	20.439	13.568	59938	12	5.826	17.926	60010	12	14.144	22.429
59723	14	20.280	4.933	59795	14	18.038	8.116	59867	17	20.917	13.665	59939	17	6.690	17.548	60011	15	14.868	22.086
59724	17	20.534	4.663	59796	10	19.685	8.460	59868	9	21.497	13.749	59940	9	9.450	17.936	60012	15	18.002	22.210
59725	32	21.135	4.129	59797	15	23.380	8.168	59869	11	21.626	13.446	59941	17	12.194	17.776	60013	27	19.591	22.544
59726	25	22.342	4.174	59798	10	23.865	8.225	59870	10	22.150	13.828	59942	25	13.111	17.964	60014	17	19.765	22.500
59727	12	23.137	4.260	59799	10	1.423	9.527	59871	31	23.228	13.160	59943	13	13.672	17.427	60015	16	20.426	22.656
59728	10	23.656	4.104	59800	18	1.824	9.536	59872	13	23.720	13.708	59944	18	15.086	17.185	60016*	69	21.060	22.032
59729	11	0.416	5.844	59801	12	5.242	9.640	59873	30	23.954	13.540	59945*	64	16.384	17.353	60017	14	23.906	22.996
59730	16	0.874	5.238	59802	22	5.256	9.980	59874	12	24.350	13.600	59946	10	18.819	17.436	60018	16	2.358	23.726
59731	17	1.370	5.436	59803	10	6.657	9.820	59875	9	25.132	13.651	59947	10	18.990	17.345	60019	10	3.608	23.037
59732	16	2.314	5.524	59804	10	6.834	9.703	59876	18	0.265	14.858	59948	12	19.458	17.028	60020	15	5.340	23.344
59733	23	3.896	5.720	59805	39	7.094	9.937	59877*	58	2.235	14.337	59949*	33	0.366	18.024	60021	10	6.390	23.806
59734	23	7.495	5.826	59806	16	15.240	9.195	59878	33	3.106	14.870	59950	33	4.490	18.738	60022	13	9.314	23.238
59735	15	8.139	5.358	59807	29	16.266	9.430	59879	33	5.981	14.738	59951	19	4.856	18.834	60023	9	11.852	23.674
59736	14	10.270	5.626	59808	13	21.654	9.870	59880	10	6.092	14.177	59952	13	6.104	18.488	60024	13	12.451	23.212
59737*	53	11.010	5.673	59809	10	23.256	9.423	59881	16	7.030	14.565	59953	19	9.204	18.868	60025	10	16.700	23.652
59738	10	13.796	5.509	59810	19	23.690	9.981	59882	9	8.480	14.118	59954	35	9.217	18.878	60026	20	18.644	23.785
59739	11	14.926	5.718	59811	12	24.607	9.236	59883	26	9.191	14.300	59955	14	11.465	18.192	60027	28	20.396	23.604
59740	10	15.386	5.850	59812	21	25.474	9.926	59884	22	10.347	14.285	59956	9	14.895	18.358	60028	14	20.632	23.768
59741	44	18.390	5.915	59813	9	0.366	10.722	59885	25	12.350	14.388	59957*	76	18.214	18.796	60029	9	21.043	23.322
59742	11	21.531	5.800	59814	10	0.666	10.550	59886	43	13.160	14.369	59958*	53	20.944	18.803	60030	22	22.980	23.556
59743	14	23.704	5.743	59815	27	2.771	10.690	59887	13	13.876	14.900	59959	10	22.927	18.982	60031	17	23.154	23.294
59744	32	23.852	5.184	59816	13	4.165	10.919	59888	13	14.124	14.660	59960	12	25.228	18.190	60032	17	2.901	24.238
59745	26	24.726	5.350	59817	26	4.793	10.166	59889	58	16.470	14.965	59961	10	0.100	19.495	60033	21	3.388	24.307
59746	22	1.122	6.640	59818	27	5.754	10.304	59890	10	17.886	14.320	59962	10	0.544	19.800	60034	14	5.002	24.478
59747	21	3.226	6.431	59819	27	8.029	10.562	59891	16	17.954	14.950	59963	16	1.464	19.694	60035	13	5.904	24.406
59748	14	3.718	6.750	59820	13	8.999	10.828	59892	11	19.450	14.666	59964	30	1.639	19.109	60036	28	8.838	24.590
59749	28	4.474	6.622	59821	12	10.070	10.930	59893	10	20.774	14.104	59965	11	1.824	19.625	60037	31	12.202	24.916
59750	10	9.349	6.458	59822	17	13.720	10.472	59894	15	21.181	14.550	59966	11	2.637	19.436	60038	29	17.541	24.623
59751	11	10.320	6.856	59823	14	15.782	10.490	59											



60049	15	18.160	25.192	60141	12	12.709	2.728	60213	16	1.657	7.212	60285	12	23.908	11.084	60357	30	23.379	17.167
60050	27	18.606	25.176	60142	38	17.664	2.225	60214	11	2.896	7.951	60286*	49	24.902	11.016	60358	28	6.420	18.698
60051	15	18.872	25.566	60143	46	17.810	2.816	60215	23	7.286	7.878	60287	28	25.058	11.262	60359*	52	7.259	18.030
60052	33	18.928	25.830	60144	15	20.400	2.329	60216	25	12.338	7.445	60288	12	0.653	12.992	60360	17	7.492	18.030
60053	40	19.668	25.926	60145	29	25.205	2.060	60217	79	12.915	7.736	60289	13	4.082	12.203	60361	25	11.892	18.933
60054	15	20.301	25.060	60146	22	1.027	3.978	60218	17	18.415	7.720	60290	38	11.250	12.225	60362	32	13.155	18.721
60055	21	22.243	25.838	60147	34	1.398	3.722	60219	13	19.672	7.570	60291	19	12.158	12.163	60363	10	25.664	18.980
60056	10	25.770	25.089	60148	47	5.389	3.950	60220	18	20.588	7.928	60292	16	12.452	12.811	60364	24	9.496	19.088
				60149	12	7.659	3.640	60221	29	21.550	7.374	60293	37	14.158	12.787	60365	22	16.316	19.900
				60150	33	10.198	3.214	60222	20	22.664	7.612	60294	10	14.729	12.242	60366	40	17.698	19.278
				60151	21	11.472	3.246	60223	17	1.060	8.548	60295	16	15.624	12.610	60367	21	18.315	19.841
				60152	14	13.229	3.032	60224	28	6.092	8.682	60296	39	18.967	12.754	60368	30	18.738	19.654
				60153	19	0.778	4.643	60225	13	10.656	8.842	50297	32	19.731	12.764	60369	13	19.723	19.714
				60154	10	0.824	4.767	60226	10	11.561	8.950	60298	28	22.303	12.319	60370	17	20.216	19.186
				60155	10	1.296	4.481	60227	12	13.992	8.699	60299	15	22.334	12.766	60371	37	22.547	19.130
				60156*	69	4.860	4.078	60228	19	14.898	8.649	60300	15	24.968	12.716	60372	18	23.032	19.887
				60157	16	5.322	4.037	60229	43	15.650	8.840	60301	10	0.424	13.106	60373	12	23.052	19.406
				60158	23	5.348	4.866	60230	32	17.456	8.470	60302	21	0.606	13.337	60374*	51	23.874	19.598
				60159	28	10.115	4.808	60231	20	17.632	8.579	60303	38	0.956	13.546	60375	44	8.189	20.784
				60160	21	13.618	4.362	60232	26	18.546	8.227	60304	37	1.686	13.917	60376	17	9.252	20.986
				60161	32	16.064	4.650	60233	17	19.362	8.696	60305	10	2.200	13.324	60377	25	10.938	20.716
				60162	16	16.606	4.508	60234	11	19.630	8.084	60306	37	3.350	13.152	60378	36	10.975	20.836
				60163	22	17.086	4.852	60235	29	22.470	8.661	60307*	48	3.714	13.294	60379	43	12.560	20.500
				60164	18	17.598	4.586	60236	41	22.945	8.492	60308	18	6.611	13.005	60380	12	13.190	20.133
				60165	10	18.182	4.342	60237	37	23.000	8.757	60309	22	6.943	13.252	60381	48	13.289	20.296
				60166	30	19.068	4.318	60238	11	23.260	8.689	60310	10	7.401	13.666	60382	37	16.308	20.522
				60167	14	19.245	4.143	60239	36	24.793	8.932	60311	13	11.360	13.268	60383	42	17.223	20.001
				60168	44	23.140	4.910	60240	15	4.270	9.822	60312	20	22.480	13.070	60384	21	17.612	20.290
				60169	11	23.328	4.488	60241	32	7.318	9.726	60313	19	5.288	14.162	60385	20	18.087	20.284
				60170	36	23.950	4.112	60242*	64	9.664	9.794	60314	21	6.138	14.091	60386	17	19.112	20.538
				60171	35	25.226	4.994	60243	33	10.100	9.665	60315	40	6.774	14.658	60387	28	19.480	20.349
				60172	39	1.502	5.561	60244	31	10.699	9.708	60316	18	9.920	14.862	60388*	67	21.938	20.751
				60173	32	2.378	5.720	60245	28	13.264	9.012	60317	38	16.192	14.733	60389	22	22.791	20.940
				60174	25	6.176	5.152	60246	13	13.315	9.921	60318	20	16.512	14.829	60390	11	3.180	21.376
				60175	17	8.370	5.568	60247	18	14.282	9.094	60319	33	23.398	14.631	60391	25	3.466	21.667
				60176	37	8.924	5.072	60248	28	14.752	9.962	60320	12	23.594	14.404	60392	30	6.307	21.361
				60177	17	10.184	5.581	60249	18	15.149	9.611	60321	45	25.186	14.725	60393	27	6.980	21.253
				60178	19	10.677	5.458	60250	30	15.858	9.790	60322	44	25.444	14.550	60394	17	8.187	21.706
				60179	28	11.143	5.312	60251	12	16.191	9.086	60323	19	1.320	15.138	60395	20	8.783	21.687
				60180	11	11.358	5.604	60252	10	16.474	9.297	60324	10	2.290	15.710	60396	19	16.860	21.268
				60181	45	12.730	5.420	60253	13	17.576	9.777	60325	20	3.460	15.252	60397	28	18.084	21.222
				60182	27	13.299	5.776	60254	31	20.950	9.312	60326	15	3.786	15.308	60398	12	18.391	21.660
				60183	41	14.083	5.736	60255	20	20.980	9.781	60327	37	11.127	15.391	60399*	86	19.435	21.202
				60184	24	14.266	5.580	60256	33	21.007	9.856	60328	38	17.178	15.406	60400	23	21.043	21.738
				60185	21	14.404	5.935	60257	34	24.910	9.450	60329	38	20.306	15.912	60401	17	23.542	21.183
				60186	10	17.746	5.500	60258	25	1.386	10.360	60330	16	22.028	15.206	60402	21	24.528	21.727
				60187	24	18.974	5.826	60259	29	3.170	10.288	60331	41	0.390	16.242	60403	22	25.467	21.036
				60188	22	20.082	5.286	60260	12	3.852	10.662	60332	22	2.250	16.846	60404	25	25.558	21.366
				60189	13	20.878	5.017	60261	23	3.971	10.149	60333	39	3.523	16.916	60405	29	1.626	22.277
				60190	16	21.502	5.056	60262	16	4.248	10.403	60334	20	6.929	16.164	60406	37	3.186	22.276
				60191	37	23.446	5.349	60263*	49	4.912	10.372	60335	20	7.164	16.052	60407	26	5.124	22.619
				60192	20	23.694	5.578	60264	19	5.215	10.347	60336	22	7.174	16.907	60408	22	5.376	22.406
				60193	32	23.864	5.150	60265	38	5.584	10.563	60337	21	8.640	16.944	60409	24	12.543	22.230
				60194	20	24.176	5.576	60266	41	10.198	10.171	60338	32	8.870	16.668	60410*	44	13.427	22.744
				60195	12	25.986	5.800	60267	44	10.862	10.737	60339	23	10.086	16.781	60411	37	14.766	22.814
				60196	16</														



60429	10	15.281	23.290	60505	32	4.845	0.724	60577	19	6.280	5.698	60649	18	12.884	10.094	60721	13	17.658	16.796
60430	18	15.665	23.878	60506	12	6.700	0.290	60578	11	7.624	5.039	60650	23	14.211	10.910	60722	10	21.374	16.320
60431	31	16.168	23.152	60507	27	8.024	0.136	60579*	44	9.223	5.734	60651	10	16.084	10.990	60723	42	23.178	16.226
60432	30	19.633	23.544	60508	13	9.591	0.406	60580	11	12.836	5.584	60652	23	18.555	10.915	60724	12	24.304	16.149
60433	16	19.720	23.094	60509*	34	12.375	0.810	60581	20	15.379	5.872	60653	18	18.679	10.871	60725	26	24.484	16.312
60434	11	21.946	23.192	60510	11	13.030	0.503	60582	19	17.348	5.883	60654	29	23.038	10.154	60726	28	1.682	17.534
60435	43	22.782	23.121	60511	18	14.536	0.586	60583	20	19.608	5.148	60655	10	24.711	10.441	60727	32	10.130	17.050
60436	34	22.818	23.482	60512	38	19.057	0.956	60584	12	21.468	5.809	60656	34	1.026	11.372	60728	10	11.412	17.184
60437	14	24.322	23.701	60513	12	19.350	0.921	60585	21	21.590	5.752	60657*	47	3.060	11.354	60729	10	12.092	17.076
60438	14	25.006	23.200	60514	11	20.004	0.446	60586	12	0.917	6.744	60658	24	3.228	11.596	60730	17	14.810	17.067
60439	30	25.844	23.970	60515	27	22.400	0.635	60587	14	4.030	6.114	60659	12	8.222	11.500	60731	10	20.405	17.202
60440	32	0.140	24.572	60516	11	22.860	0.446	60588	45	5.243	6.884	60660	12	9.310	11.415	60732	11	21.451	17.393
60441	12	2.862	24.490	60517	32	23.596	0.349	60589	17	5.666	6.422	60661	30	11.012	11.300	60733*	46	21.726	17.278
60442	32	2.863	24.932	60518	10	25.013	0.655	60590	18	7.048	6.456	60662	23	12.528	11.436	60734	24	24.087	17.635
60443*	88	4.566	24.644	60519	29	25.088	0.977	60591	19	7.544	6.236	60663	16	14.286	11.855	60735	10	9.844	18.638
60444	18	5.247	24.505	60520	11	2.686	1.796	60592	25	9.560	6.120	60664	25	15.985	11.488	60736	33	10.129	18.364
60445	25	5.528	24.570	60521	33	6.361	1.892	60593	22	11.408	6.824	60665	30	17.608	11.684	60737	35	10.960	18.594
60446	24	6.168	24.304	60522	36	6.900	1.167	60594	10	11.620	6.770	60666	10	23.298	11.632	60738	44	12.186	18.888
60447	17	6.708	24.555	60523	24	8.991	1.846	60595	38	11.772	6.097	60667	22	24.280	11.323	60739	11	14.658	18.620
60448	18	7.461	24.665	60524	25	9.245	1.535	60596	32	13.732	6.551	60668	24	24.540	11.290	60740	18	14.844	18.284
60449	37	8.016	24.284	60525	38	10.187	1.171	60597	12	17.320	6.689	60669	20	25.696	11.822	60741	13	16.402	18.916
60450	21	10.486	24.913	60526	14	11.176	1.827	60598*	44	17.936	6.516	60670	29	0.498	12.712	60742	34	17.056	18.720
60451	13	11.726	24.230	60527	16	13.454	1.337	60599	10	19.793	6.100	60671	19	6.126	12.367	60743	36	18.032	18.466
60452	10	11.848	24.672	60528	14	14.921	1.070	60600	31	24.192	6.197	60672	31	8.343	12.776	60744*	43	19.668	18.762
60453	10	13.927	24.288	60529	23	15.886	1.476	60601	23	24.975	6.638	60673	18	9.380	12.816	60745	12	23.488	18.388
60454	16	14.315	24.510	60530	24	17.700	1.100	60602	15	0.754	7.998	60674	22	9.454	12.173	60746	11	25.608	18.293
60455	15	14.994	24.698	60531	32	20.132	1.800	60603	25	5.916	7.718	60675	12	18.676	12.863	60747*	54	2.225	19.954
60456	23	16.228	24.427	60532	17	20.584	1.844	60604	23	6.712	7.326	60676	23	18.946	12.040	60748	11	7.656	19.147
60457	29	16.700	24.851	60533*	45	21.054	1.244	60605	12	9.178	7.346	60677	10	20.554	12.560	60749	26	8.066	19.414
60458	33	17.064	24.274	60534	33	22.270	1.270	60606	21	9.308	7.968	60678	44	20.850	12.949	60750	31	8.578	19.172
60459	20	19.408	24.062	60535	10	22.315	1.020	60607	24	13.500	7.523	60679	34	21.758	12.956	60751	28	9.509	19.792
60460	17	3.612	25.447	60536	16	22.414	1.736	60608	16	15.248	7.844	60680	21	22.098	12.504	60752	11	10.474	19.238
60461	47	5.200	25.804	60537	11	24.328	1.710	60609	17	15.500	7.912	60681	32	22.392	12.586	60753	29	13.924	19.726
60462	23	6.262	25.955	60538	33	0.936	2.353	60610	22	16.674	7.970	60682	12	24.766	12.415	60754	12	14.640	19.940
60463	12	6.342	25.848	60539	11	0.980	2.941	60611	18	17.536	7.550	60683	31	24.811	12.794	60755	18	17.188	19.395
60464	21	9.624	25.274	60540	26	3.174	2.390	60612	24	18.014	7.469	60684	24	25.652	12.894	60756	10	19.398	19.682
60465	18	11.126	25.186	60541	11	6.095	2.230	60613	22	21.348	7.486	60685	16	0.539	13.158	60757	25	19.628	19.612
60466	16	13.845	25.092	60542	24	6.901	2.348	60614	38	1.050	8.873	60686	18	0.690	13.460	60758	26	20.804	19.422
60467	10	14.883	25.706	60543	18	10.158	2.661	60615	18	5.602	8.802	60687	44	5.115	13.502	60759	23	21.338	19.341
60468	30	15.227	25.512	60544	40	10.464	2.314	60616	28	6.428	8.403	60688	24	8.434	13.289	60760	26	22.126	19.404
60469	17	17.088	25.828	60545	22	11.834	2.770	60617	12	6.446	8.774	60689	13	9.935	13.405	60761	36	25.172	19.478
60470	16	17.491	25.024	60546	31	19.254	2.090	60618	30	7.964	8.577	60690	28	10.194	13.163	60762	18	25.432	19.878
60471	14	18.975	25.530	60547	32	21.794	2.311	60619	12	9.766	8.968	60691	41	16.788	13.758	60763	16	1.396	20.260
60472	11	21.437	25.863	60548	21	21.824	2.278	60620	14	10.582	8.669	60692	15	18.472	13.047	60764	21	9.621	20.696
60473	30	22.698	25.852	60549	19	23.866	2.616	60621	22	10.854	8.215	60693	11	21.294	13.684	60765	11	20.372	20.131
<div>R.A. 14<sup>h</sup> 36<sup>m</sup></div> <div>Plate 1682; 1920 June 9.</div> <div>Provisional Constants.</div> <div><div>A</div><div>B</div><div>C</div><div>-01717 + 02269 -2493</div></div> <div><div>D</div><div>E</div><div>F</div><div>-02258 -01728 +0228</div></div> <div>Mag.=17.1-1.05√d</div>				60550	22	25.798	2.191	60622	30	12.944	8.897	60694	19	23.584	13.678	60766	30	20.470	20.268
				60551	16	6.898	3.114	60623	34	16.271	8.859	60695	37	24.575	13.818	60767	17	21.642	20.152
				60552	28	7.336	3.819	60624	30	18.786	8.656	60696	15	25.880	13.076	60768	37	21.690	20.605
				60553	40	9.376	3.863	60625	23	20.162	8.186	60697	11	1.102	14.461				



60793	14	9.690	22.294	R.A. 14 <sup>h</sup> 44 <sup>m</sup>  Plate 1666; 1920 May 12  Provisional Constants.  A            B            C -01719 + 00275 + 0964  D            E            F -00313 -01760 -03235  Mag.=17.0-1.05√d	60906	16	19.606	4.306	60978	34	8.706	13.050	61050	13	11.774	21.660
60794	19	10.200	22.268		60907	16	21.901	4.278	60979	17	12.744	13.200	61051	37	16.682	21.202
60795	32	12.432	22.494		60908	15	7.312	5.426	60980	78	14.350	13.700	61052	10	17.497	21.938
60796	36	13.716	22.228		60909	34	8.223	5.886	60981	46	20.156	13.006	61053	17	19.388	21.736
60797	18	18.948	22.936		60910	14	13.980	5.666	60982	23	21.725	13.275	61054	10	19.765	21.962
60798	31	19.150	22.976		60911	19	14.646	5.975	60983	17	22.136	13.548	61055	25	20.125	21.040
60799	15	19.672	22.042		60912	13	18.460	5.211	60984	41	2.638	14.004	61056	32	22.905	21.254
60800	42	20.957	22.048		60913	60	19.754	5.355	60985	17	6.242	14.994	61057	26	25.418	21.348
60801	35	20.970	22.563		60914	18	21.255	5.218	60986	34	10.253	14.556	61058	13	0.327	22.365
60802	30	21.623	22.381		60915	29	23.423	5.582	60987	16	21.224	14.364	61059	27	0.346	22.376
60803	14	22.317	22.196	60916	21	23.700	5.970	60988	35	21.644	14.580	61060	14	2.122	22.650	
60804	29	22.340	22.206	60917	34	25.888	5.306	60989	90	22.789	14.718	61061	13	8.260	22.484	
60805	14	24.116	22.470	60918	26	2.312	6.382	60990	17	2.054	15.814	61062	19	9.694	22.809	
60806	41	1.215	23.500	60919	19	3.091	6.825	60991	16	4.284	15.324	61063	14	10.234	22.304	
60807	33	1.260	23.860	60920	19	11.600	6.895	60992	37	8.171	15.691	61064	17	12.208	22.224	
60808	10	3.322	23.482	60921	16	15.126	6.726	60993	18	14.566	15.435	61065	13	12.369	22.278	
60809	12	3.442	23.529	60922	34	24.006	6.236	60994	58	20.186	15.986	61066	41	13.607	22.086	
60810	95	5.448	23.266	60923	23	6.070	7.270	60995	37	21.509	15.410	61067	26	15.859	22.191	
60811	17	6.722	23.320	60924	18	8.184	7.136	60996	21	22.320	15.300	61068	10	19.512	22.764	
60812	13	7.186	23.962	60925	19	9.443	7.626	60997	59	22.457	15.866	61069	15	19.866	22.236	
60813	31	8.257	23.985	60926	20	14.852	7.634	60998	60	23.940	15.998	61070	17	20.576	22.916	
60814	14	9.645	23.662	60927	15	14.933	7.186	60999	10	24.050	15.480	61071	24	21.148	22.440	
60815	28	9.923	23.026	60928	23	19.364	7.757	61000	18	25.062	15.819	61072	18	24.683	22.114	
60816	11	14.560	23.169	60929	13	21.900	7.796	61001	52	1.228	16.400	61073	16	25.727	22.834	
60817	33	15.950	23.413	60930	39	24.414	7.342	61002	15	2.531	16.496	61074	17	4.092	23.234	
60818	15	18.036	23.490	60931	23	25.758	7.691	61003	17	4.271	16.661	61075	16	7.806	23.906	
60819	43	18.230	23.922	60932	24	1.898	8.629	61004	13	5.424	16.244	61076	18	10.820	23.136	
60820	28	18.436	23.394	60933	14	5.022	8.746	61005	13	7.084	16.000	61077	57	15.342	23.392	
60821	15	18.798	23.054	60934	36	5.283	8.990	61006	32	11.680	16.786	61078	11	15.484	23.534	
60822	80	24.089	23.962	60935	22	12.656	8.408	61007	37	15.560	16.144	61079	20	16.036	23.444	
60823	12	2.772	24.046	60936	13	16.782	8.262	61008	17	18.972	16.264	61080	13	16.642	23.145	
60824	31	4.296	24.278	60937	24	17.744	8.134	61009	46	25.542	16.092	61081	34	17.026	23.439	
60825	36	6.012	24.328	60938	20	20.942	8.050	61010	16	2.128	17.815	61082	15	17.101	23.064	
60826	29	7.076	24.754	60939	37	21.014	8.078	61011	24	4.936	17.655	61083	18	19.093	23.745	
60827	21	7.469	24.118	60940	18	22.778	8.732	61012	12	5.294	17.524	61084	25	23.228	23.468	
60828	33	9.280	24.643	60941	20	24.782	8.535	61013	32	6.330	17.806	61085	40	1.686	24.322	
60829	42	9.935	24.035	60942	29	1.174	9.420	61014	38	6.515	17.376	61086	98	2.073	24.142	
60830	35	14.252	24.038	60943	130	3.266	9.550	61015	29	10.658	17.904	61087	24	2.848	24.944	
60831	27	22.280	24.372	60944	53	3.736	9.192	61016	48	11.036	17.588	61088	98	4.073	24.054	
60832	40	23.696	24.142	60945	39	3.823	9.514	61017	11	13.916	17.516	61089	44	5.157	24.875	
60833	14	24.030	24.132	60946	34	4.945	9.905	61018	50	14.394	17.024	61090	16	6.150	24.395	
60834	32	24.864	24.755	60947	19	5.694	9.524	61019	17	16.234	17.264	61091	25	9.762	24.048	
60835	12	3.835	25.274	60948	32	7.952	9.217	61020	36	20.168	17.267	61092	43	11.316	24.888	
60836	47	5.326	25.755	60949	34	8.050	9.848	61021	48	21.532	17.096	61093	29	11.426	24.066	
60837	22	8.890	25.499	60950	24	10.900	9.914	61022	22	22.582	17.275	61094	17	21.628	24.178	
60838	11	9.203	25.206	60951	24	13.631	9.534	61023	17	24.066	17.474	61095	13	21.664	24.064	
60839	27	14.086	25.632	60952	23	14.015	9.473	61024	16	5.346	18.248	61096	22	23.154	24.205	
60840	29	17.164	25.424	60953	37	16.840	9.356	61025	18	6.642	18.194	61097	13	23.894	24.386	
60841	30	18.528	25.120	60954	16	24.291	9.460	61026	14	8.326	18.760	61098	28	24.656	24.706	
60842	32	19.726	25.331	60955	21	1.132	10.326	61027	16	24.408	18.576	61099	19	3.298	25.256	
60843	30	20.506	25.373	60956	15	3.818	10.144	61028	19	0.155	19.574	61100	16	12.150	25.656	
60844	13	21.040	25.010	60957	16	12.212	10.994	61029	29	3.200	19.666	61101	21	16.223	25.578	
60845	20	25.309	25.067	60958	16	24.638	10.858	61030	30	6.775	19.268	61102	16	16.570	25.963	
				60959	18	2.366	11.506	61031	18	11.004	19.238	61103	14	16.778	25.524	
				60960	20	2.625	11.475	61032	30	16.386	19.074	61104	17	18.408	25.756	
				60961	36	5.490	11.280	61033	17	18.141	19.734	61105	12	20.726	25.735	
				60962	106	6.130	11.334	61034	34	22.068	19.114	61106	23	24.798	25.106	
				60963	42	7.674	11.008	61035	42	24.118	19.131					
				60964	39	10.544	11.121	61036	17	6.186	20.106					
				60965	18	22.760	11.925	61037	13	6.839	20.829					
				60966	12	23.850	11.433	61038	16	7.304	20.365					
				60967	16	25.578	11.799	61039	17	7.328	20.107					
				60968	16	0.176	12.668	61040	13	8.100	20.034					



R.A. 14 <sup>h</sup> 52 <sup>m</sup>				61206				61278				61350				61422			
Plate 1673; 1920 May 13				8	21.394	3.465	61207	20	18.136	9.227	61351	9	16.122	17.647	61423	21	17.459	23.184	
Provisional Constants.				15	25.576	3.629	61208	71	18.244	9.558	61352	19	18.090	17.578	61424	11	20.113	23.586	
A B C				11	25.716	3.557	61209	8	18.629	9.082	61353	9	2.223	18.520	61425	13	20.235	23.757	
-01737 + 01184 - 3186				18	4.723	4.585	61210	8	2.286	10.799	61354	8	6.604	18.799	61426	8	20.476	23.080	
D E F				12	4.808	4.609	61211	8	4.810	10.928	61355	10	8.266	18.534	61427	11	21.195	23.210	
- 01220 - 01759 - 4216				17	9.674	4.633	61212	14	7.235	10.276	61356	10	8.840	18.554	61428	21	21.947	23.688	
Mag.=16.5-1.05√d				10	10.466	4.638	61213	26	8.230	10.366	61357	29	13.208	18.650	61429	12	22.266	23.842	
				9	11.496	4.289	61214	9	12.033	10.530	61358	15	20.565	18.212	61430	10	23.600	23.174	
				19	11.846	4.707	61215	17	20.744	10.232	61359	16	23.290	18.997	61431	12	23.946	23.594	
				12	12.518	4.830	61216	44	23.623	10.221	61360	24	24.028	18.680	61432	10	25.850	23.444	
				11	16.962	4.166	61217	14	25.420	10.427	61361	34	25.166	18.128	61433	19	1.090	24.170	
				9	19.193	4.154	61218	13	0.434	11.902	61362	30	25.228	18.889	61434	11	1.834	24.340	
				15	19.386	4.774	61219	40	5.295	11.703	61363	26	1.946	19.078	61435	21	2.603	24.643	
				18	23.258	4.512	61220	12	7.383	11.950	61364	9	4.936	19.290	61436	21	4.090	24.398	
				30	23.565	4.394	61221	63	11.593	11.890	61365	8	6.604	19.100	61437	8	6.186	24.648	
				9	23.586	4.116	61222	117	11.642	11.914	61366	65	9.050	19.104	61438	17	9.078	24.374	
				21	0.956	5.549	61223	26	11.814	11.128	61367	12	10.228	19.606	61439	37	10.001	24.654	
				15	1.242	5.932	61224	31	14.950	11.750	61368	31	10.645	19.727	61440	8	14.131	24.334	
				8	3.244	5.450	61225	14	16.653	11.980	61369	9	15.233	19.823	61441	27	16.837	24.347	
				20	3.414	5.222	61226	8	21.469	11.878	61370	18	17.986	19.920	61442	14	18.940	24.324	
				18	11.619	5.108	61227*	35	21.573	11.428	61371	64	18.557	19.258	61443	8	18.948	24.562	
				35	15.685	5.886	61228	10	23.057	11.495	61372	10	20.034	19.922	61444	12	21.567	24.552	
				28	17.474	5.251	61229	11	23.712	11.925	61373	11	24.361	19.209	61445	24	21.884	24.664	
				31	18.154	5.839	61230	14	1.116	12.623	61374	9	24.388	19.354	61446	12	22.475	24.323	
				13	23.948	5.064	61231	13	1.424	12.060	61375	46	25.712	19.411	61447	10	22.702	24.602	
				21	24.102	5.240	61232	15	1.433	12.912	61376	11	0.376	20.583	61448	16	24.322	24.646	
				21	1.554	6.190	61233	16	5.334	12.484	61377	10	2.074	20.804	61449	8	0.161	25.648	
				11	1.740	6.500	61234	30	8.479	12.126	61378	9	2.951	20.604	61450	20	2.751	25.036	
				8	9.729	6.527	61235	9	13.424	12.286	61379	8	17.264	20.800	61451	18	6.311	25.364	
				8	10.312	6.277	61236	10	14.602	12.422	61380	18	20.716	20.579	61452	10	10.314	25.414	
				19	15.296	6.053	61237	10	17.084	12.210	61381	9	21.472	20.460	61453	9	11.776	25.742	
				17	15.311	6.690	61238	9	23.026	12.354	61382	17	23.268	20.865	61454	15	15.306	25.904	
				20	15.466	6.160	61239	12	24.006	12.557	61383	9	24.960	20.500	61455	11	18.272	25.834	
				19	15.789	6.642	61240	29	6.448	13.730	61384	27	0.778	21.226	61456	21	18.774	25.506	
				13	16.178	6.117	61241	11	6.603	13.822	61385	17	3.292	21.265					
				10	17.695	6.208	61242	15	8.382	13.810	61386	31	4.118	21.948					
				19	18.454	6.194	61243	17	9.146	13.478	61387	10	5.574	21.713					
				22	18.454	6.688	61244	11	10.540	13.066	61388	8	8.470	21.670					
				8	19.640	6.622	61245	11	11.184	13.937	61389	8	10.220	21.368					
				8	20.668	6.286	61246	18	16.047	13.827	61390	76	11.854	21.046					
				18	23.012	6.618	61247	9	17.536	13.719	61391	15	14.828	21.770					
				30	1.986	7.287	61248	18	20.108	13.909	61392	9	15.477	21.929					
				14	3.338	7.608	61249	10	24.154	13.703	61393	17	15.928	21.804					
				19	7.038	7.676	61250	30	24.936	13.389	61394	16	16.398	21.248					
				17	7.105	7.964	61251	56	0.513	14.696	61395	18	18.296	21.804					
				21	7.462	7.559	61252	24	11.452	14.121	61396	13	18.706	21.828					
				15	11.438	7.800	61253	40	15.338	14.886	61397	9	19.027	21.950					
				8	11.857	7.124	61254	16	16.143	14.696	61398	36	22.870	21.988					
				19	11.876	7.356	61255	18	0.067	15.292	61399	10	22.987	21.931					
				21	12.292	7.096	61256	36	0.213	15.852	61400	16	2.574	22.047					
				11	21.496	7.528	61257	13	0.257	15.926	61401	11	3.633	22.744					
				14	23.078	7.422	61258	44	1.694	15.954	61402	19	5.264	22.298					
				26	23.817	7.151	61259	11	2.818	15.747	61403	15	5.672	22.988					
				17	24.967	7.793	61260	27	4.290	15.047	61404	25	9.546	22.124					
				12	0.380	8.712	61261	9	9.944	15.964	61405	22	9.654	22.984					
				14	2.380	8.472	61262	28	12.374	15.704	61406	26	9.700	22.696					
				11	4.537	8.406	61263	16	20.750	15.396	61407	8	11.824	22.626					
				10	4.962	8.958	61264	11	21.091	15.468	61408	10	14.022	22.530					
				10	5.601	8.811	61265	17	25.276	15.226	61409	12	14.375	22.920					
				10	9.835	8.826	61266	32	3.304	16.010	61410	21	1.147	23.436					
				9	16.163	8.141	61267	10	14.178	16.378	61411	21	4.436	23.698					
				16	16.650	8.289	61268*	20	15.784	16.224	61412	11	6.602	23.157					
				45	23.010	8.726	61269	31	18.805	16.100	61413	10	7.170	23.542					
				11	1.910	9.407	61270	14	19.659	16.462	61414	11	7.458	23.682					
				30	4.503	9.358	61271	8	22.750	16.656	61415	12	7.727	23.916					
				22	4.666	9.153	61272												



61514	23	4.988	1.431	61586	28	14.425	7.640	61658	10	16.073	16.038	61730	42	12.592	22.404	61806	13	17.380	0.167
61515	13	5.660	1.292	61587	10	16.386	7.206	61659	32	16.675	16.121	61731	30	13.888	22.896	61807	27	18.900	0.278
61516	12	7.594	1.952	61588	23	16.778	7.015	61660	34	19.346	16.734	61732	14	16.772	22.333	61808	11	23.162	0.958
61517	21	8.464	1.851	61589	11	20.150	7.550	61661*	53	22.130	16.436	61733	23	19.135	22.950	61809	39	24.166	0.980
61518	11	9.272	1.340	61590	22	21.814	7.734	61662	29	22.162	16.484	61734	16	20.017	22.329	61810	22	1.280	1.806
61519*	60	13.199	1.018	61591	12	23.924	7.740	61663	14	22.284	16.089	61735*	44	22.273	22.504	61811	23	2.088	1.726
61520	21	16.591	1.966	61592	12	1.464	8.018	61664	11	22.350	16.040	61736*	45	22.372	22.242	61812	31	10.710	1.614
61521	10	23.356	1.634	61593	20	3.357	8.362	61665*	46	24.130	16.612	61737	10	25.547	22.950	61813	14	12.431	1.636
61522	30	23.680	1.302	61594	12	3.580	8.645	61666*	49	4.993	17.788	61738	24	25.556	22.601	61814	24	16.206	1.002
61523	30	24.490	1.239	61595	22	5.758	8.750	61667	23	7.124	17.977	61739	12	2.225	23.761	61815*	46	19.320	1.386
61524	11	1.446	2.697	61596	24	8.059	8.871	61668	20	7.400	17.680	61740	20	7.469	23.017	61816	11	20.039	1.192
61525	12	4.721	2.698	61597	14	12.969	8.932	61669	25	7.708	17.008	61741	16	7.567	23.205	61817	13	25.546	1.702
61526	12	8.112	2.110	61598	22	17.759	8.585	61670*	66	15.018	17.970	61742	23	13.286	23.783	61818*	81	1.870	2.700
61527	10	8.363	2.351	61599*	50	1.414	9.321	61671	12	15.979	17.320	61743	10	13.615	23.518	61819	40	8.876	2.898
61528	11	13.285	2.760	61600	17	9.872	9.717	61672	32	16.330	17.692	61744	12	14.665	23.668	61820	25	11.150	2.950
61529	11	17.059	2.158	61601	22	19.765	9.852	61673	20	17.304	17.319	61745	12	16.024	23.836	61821	17	13.674	2.082
61530	32	18.235	2.979	61602	14	24.925	9.510	61674	29	18.700	17.152	61746	10	20.349	23.138	61822	18	15.105	2.772
61531	16	18.640	2.676	61603	28	25.940	9.941	61675	24	18.908	17.994	61747	10	24.626	23.520	61823	14	18.328	2.160
61532	15	18.702	2.483	61604*	49	2.048	10.809	61676	12	20.969	17.562	61748	31	0.579	24.300	61824	10	20.552	2.626
61533	19	23.121	2.522	61605	22	3.852	10.990	61677	33	21.102	17.242	61749	12	0.900	24.450	61825	15	23.360	2.624
61534*	80	24.262	2.204	61606	24	6.070	10.286	61678	25	23.508	17.850	61750	12	2.577	24.175	61826	10	24.420	2.362
61535	21	24.788	2.718	61607	13	8.719	10.506	61679	28	24.162	17.264	61751	17	4.849	24.748	61827	14	2.410	3.200
61536	43	25.434	2.722	61608	13	9.756	10.809	61680	11	24.571	17.093	61752	18	8.492	24.420	61828	48	3.055	3.194
61537	12	2.189	3.500	61609	13	11.453	10.726	61681*	38	3.710	18.690	61753	12	9.456	24.910	61829	18	6.107	3.020
61538	13	2.560	3.420	61610	24	24.540	10.952	61682	12	5.298	18.233	61754	23	9.711	24.840	61830	10	7.988	3.300
61539	19	4.345	3.531	61611	33	24.780	10.556	61683	29	9.550	18.954	61755	10	11.091	24.476	61831	15	16.910	3.176
61540	10	6.420	3.538	61612	20	25.460	10.522	61684	10	11.015	18.412	61756*	60	14.013	24.470	61832	37	18.198	3.326
61541	12	8.898	3.402	61613	34	25.524	10.260	61685	15	16.462	18.158	61757	15	18.623	24.022	61833	13	18.890	3.886
61542	28	9.021	3.393	61614	31	13.961	11.686	61686	12	18.665	18.210	61758	20	19.315	24.215	61834*	43	21.821	3.492
61543	21	12.248	3.130	61615	13	16.460	11.276	61687	10	20.738	18.234	61759*	42	21.914	24.286	61835	16	23.996	3.160
61544	22	13.408	3.286	61616	15	17.920	11.116	61688	33	21.304	18.271	61760	29	0.532	25.279	61836	11	1.819	4.834
61545	28	13.612	3.169	61617	26	24.309	11.169	61689	14	22.142	18.250	61761	22	2.966	25.220	61837*	39	6.566	4.617
61546	13	14.708	3.140	61618	36	0.019	12.050	61690	10	23.486	18.950	61762	21	5.952	25.028	61838	31	7.722	4.237
61547	16	16.090	3.705	61619	10	1.506	12.091	61691	11	25.519	18.009	61763	10	6.824	25.981	61839*	43	14.678	4.730
61548	22	18.431	3.733	61620*	42	5.276	12.810	61692	21	1.850	19.590	61764	37	8.018	25.873	61840	17	15.302	4.434
61549	22	20.904	3.602	61621	37	5.819	12.821	61693	32	2.586	19.260	61765	40	11.734	25.194	61841	15	15.492	4.220
61550	27	21.812	3.992	61622	41	18.370	12.354	61694	12	2.926	19.782	61766	16	12.091	25.413	61842	14	19.272	4.650
61551	34	1.902	4.985	61623	11	18.470	12.697	61695	33	3.788	19.450	61767	15	16.376	25.939	61843	33	19.645	4.920
61552	20	3.902	4.190	61624	12	22.980	12.780	61696*	62	4.272	19.966	61768	32	16.940	25.483	61844	12	20.464	4.680
61553	12	4.040	4.116	61625	13	23.448	12.760	61697	28	9.601	19.777	61769	22	17.388	25.221	61845*	61	24.070	4.830
61554	10	4.244	4.488	61626	10	24.598	12.900	61698	24	9.780	19.906	61770	10	17.906	25.920	61846	17	7.696	5.435
61555	13	4.505	4.819	61627	10	25.115	12.150	61699	12	15.866	19.172	61771	14	20.050	25.600	61847*	31	8.193	5.342
61556	21	6.895	4.890	61628	13	2.472	13.140	61700	13	19.100	19.966	61772	20	21.271	25.862	61848	17	9.530	5.820
61557	24	17.100	4.064	61629	38	3.412	13.958	61701	10	19.848	19.976					61849	18	10.716	5.153
61558*	54	17.650	4.392	61630*	51	5.061	13.024	61702	16	22.920	19.181					61850	15	11.249	5.540
61559	30	17.830	4.670	61631	21	9.844	13.520	61703	19	25.882	19.212					61851	17	12.172	5.772
61560*	52	21.440	4.273	61632	27	13.426	13.007	61704	22	4.755	20.633					61852	12	15.160	5.881
61561	17	24.170	4.340	61633	31	14.964	13.830	61705	33	8.990	20.704					61853	9	16.356	5.584
61562	22	1.600	5.108	61634	14	19.470	13.612	61706	35	9.000	20.717					61854	25	17.796	5.238
61563	18	2.298	5.649	61635	33	21.105	13.772	61707	19	13.041	20.374					61855	34	23.820	5.315
61564	30	2.452	5.822	61636	22	24.152	13.702	61708	14	13.980	20.924					61856	20	1.842	6.076
61565	10	10.534	5.026	61637	36	10.726	14.038	61709*	107	15.061	20.062					61857	12	2.090	6.994
61566	10	12.276	5.576	61638	14	12.374	14.610	61710*	41	15.540	20.704					61858	10	3.297	6.562
61567	10	16.144	5.981	61639	33	13.115	14.482	61711	26	16.868	20.248					61859	31	16.413	6.300
61568	15	16.470	5.991	61640	29	18.314	14.760	61712*	49	20.298	20.822					61860*	35	22.922	6.188
61569	26	17.610	5.670	61641	41	21.630	14.002	61713	12	20.720	20.944					61861	31	25.134	6.171
61570	12	22.605	5.807	61642	39	22.398	14.181	61714	12	23.074	20.802					61862*	57	25.412	6.464
61571	30	24.170	5.583	61643	12	23.374	14.001	61715	35	23.596	20.439					61863*	44	9.610	7.600
61572	28	4.435	6.351	61644*	45	23.482	14.524	61716	10	0.056	21.080					61864	28	11.552	7.085
61573	11	7.436	6.266	61645	23	24.200	14.026	61717	25	1.857	21.456					61865	26	12.198	7.482
61574	12	9.565	6.544	61646	12	25.145	14.714	61718	14	5.810	21.631					61866	12	12.716	7.922
61575	11	15.094	6.008	61647	23	3.782	15.790	61719	11	6.462	21.486					61867*	55	18.370	7.431
61576	34	19.271	6.152	61648	22	10.465	15.901	61720	43	13.164	21.862					61868	19	21.092	7.276
61577	18	21.064	6.182	61649	10	11.966	15.189	61721	17	20.460	21.812					61869	10	21.290	7.494
61578	12	21.571	6.974	61650	12	15.207	15.220	61722	31	21.228	21.841					61870	11	21.859	



61878	11	8.522	8.042	61950	25	0.026	17.010	62022	15	13.667	24.284	62083*	32	12.244	4.162	62155	18	8.322	12.435
61879	26	12.232	8.740	61951*	51	1.992	17.104	62023	27	15.120	24.017	62084*	27	12.360	4.563	62156	20	10.870	12.755
61880	15	14.392	8.909	61952	23	2.037	17.754	62024	10	15.600	24.305	62085	20	12.420	4.598	62157	18	12.810	12.160
61881	31	18.003	8.925	61953	14	4.160	17.639	62025*	89	20.184	24.643	62086	15	12.598	4.254	62158	12	15.140	12.150
61882	20	25.332	8.490	61954	10	5.986	17.322	62026	10	21.766	24.472	62087	22	15.506	4.308	62159	17	20.490	12.004
61883*	48	25.589	8.839	61955	19	6.450	17.430	62027	22	23.182	24.682	62088*	11	19.804	4.536	62160	17	22.530	12.230
61884	27	7.566	9.752	61956	10	12.409	17.885	62028	10	4.961	25.964	62089	14	24.174	4.126	62161	16	2.458	13.164
61885	23	8.057	9.454	61957	32	14.838	17.276	62029	22	5.718	25.531	62090	30	1.592	5.706	62162	13	7.110	13.463
61886*	43	8.103	9.760	61958	16	16.730	17.989	62030	9	12.869	25.420	62091*	54	1.838	5.221	62163	12	12.030	13.815
61887	26	14.536	9.674	61959	10	20.728	17.240	62031	45	14.676	25.520	62092	32	5.060	5.524	62164	26	13.202	13.949
61888	10	24.438	9.932	61960*	40	22.167	17.618	62032	11	15.035	25.508	62093	16	6.044	5.412	62165	20	14.071	13.750
61889	11	3.216	10.992	61961	8	22.647	17.364	62033	41	15.820	25.870	62094	28	10.620	5.722	62166	16	17.322	13.276
61890	30	3.277	10.728	61962	12	23.910	17.644	62034	9	18.104	25.664	62095*	32	14.624	5.262	62167	13	19.596	13.672
61891	22	3.688	10.402	61963	27	25.998	17.734	62035	27	20.868	25.157	62096*	40	14.860	5.098	62168	12	23.740	13.543
61892	13	12.182	10.225	61964	9	0.034	18.775	62036	20	23.150	25.810	62097*	36	19.488	5.345	62169*	74	24.518	13.023
61893	10	18.410	10.626	61965	15	1.392	18.350	62037	9	25.862	25.756	62098	10	19.540	5.758	62170	12	2.962	14.848
61894	27	22.154	10.983	61966	12	5.538	18.635					62099	12	20.820	5.681	62171	10	3.040	14.025
61895	25	22.286	10.468	61967	35	6.602	18.260					62100	24	21.760	5.488	62172	11	3.330	14.440
61896	18	2.079	11.659	61968	14	10.418	18.392					62101	11	22.560	5.142	62173	14	4.100	14.567
61897	17	2.308	11.438	61969	12	12.722	18.216					62102*	33	0.694	6.579	62174	10	6.470	14.955
61898	32	2.538	11.036	61970	30	18.062	18.288					62103	25	2.908	6.564	62175	16	9.562	14.262
61899	18	3.788	11.625	61971	10	20.430	18.876					62104*	56	3.180	6.855	62176	18	12.246	14.604
61900*	54	6.810	11.944	61972	26	21.488	18.348					62105*	60	7.258	6.948	62177	22	24.438	14.410
61901	32	8.145	11.068	61973	10	3.788	19.672					62106	11	7.739	6.765	62178	13	25.094	14.023
61902	30	14.290	11.400	61974	11	6.192	19.766					62107	10	9.830	6.099	62179*	43	1.582	15.250
61903	14	19.234	11.550	61975	10	8.290	19.238					62108*	40	19.276	6.648	62180	12	1.780	15.176
61904	9	20.100	11.900	61976	19	10.146	19.016					62109	12	21.260	6.278	62181	10	3.965	15.351
61905	14	25.274	11.591	61977	21	11.340	19.734					62110	14	22.260	6.080	62182	13	5.440	15.228
61906	23	19.432	12.464	61978	18	13.120	19.750					62111	18	0.150	7.644	62183	26	8.155	15.548
61907	14	20.074	12.810	61979	21	14.646	19.974					62112	13	0.206	7.766	62184	24	13.182	15.522
61908	15	20.714	12.206	61980	16	17.178	19.540					62113	18	3.425	7.627	62185	25	14.839	15.768
61909	32	22.332	12.596	61981	29	1.525	20.937					62114*	19	3.876	7.645	62186	11	15.972	15.815
61910	16	24.683	12.773	61982*	44	5.170	20.666					62115*	21	4.046	7.994	62187	14	20.191	15.334
61911	9	0.780	13.292	61983	10	12.272	20.367					62116	12	14.476	7.570	62188	26	23.072	15.280
61912	23	9.363	13.830	61984	17	14.209	20.910					62117	18	24.640	7.455	62189	14	23.255	15.640
61913	18	14.802	13.990	61985	29	14.967	20.668					62118	30	24.925	7.188	62190	12	24.080	15.414
61914	10	21.682	13.600	61986	10	14.983	20.619					62119	20	3.104	8.880	62191	24	2.447	16.291
61915	9	24.838	13.830	61987	30	15.352	20.696					62120	19	5.623	8.616	62192	17	2.794	16.080
61916	10	25.270	13.637	61988	10	20.024	20.372					62121	24	5.882	8.850	62193*	36	16.849	16.418
61917	41	0.219	14.702	61989	10	21.060	20.753					62122	20	8.676	8.730	62194	14	0.390	17.005
61918	14	1.966	14.194	61990	21	21.854	20.640					62123	10	9.870	8.632	62195	11	5.800	17.162
61919	17	2.020	14.516	61991	10	1.211	21.616					62124	13	12.018	8.684	62196	21	6.252	17.750
61920	13	6.630	14.060	61992*	62	5.668	21.004					62125	22	13.050	8.192	62197	20	8.704	17.924
61921	15	10.690	14.790	61993	13	8.047	21.174					62126	15	16.190	8.022	62198	20	9.045	17.464
61922	15	13.054	14.514	61994	14	10.240	21.608					62127	24	20.590	8.908	62199	10	9.930	17.520
61923	16	13.612	14.570	61995	31	13.575	21.848					62128	22	20.880	8.730	62200	13	12.912	17.718
61924	23	14.626	14.110	61996	15	16.208	21.938					62129	19	20.946	8.622	62201	12	16.927	17.614
61925	10	20.066	14.956	61997	10	22.047	21.060					62130	15	22.405	8.191	62202	17	18.315	17.380
61926*	49	23.810	14.859	61998	19	22.208	21.312					62131	11	25.506	8.126	62203	11	21.456	17.686
61927	15	24.006	14.785	61999	9	23.164	21.018					62132*	42	3.360	9.229	62204	18	24.982	17.378
61928	11	25.187	14.458	62000	53	0.330	22.762					62133*	48	4.274	9.722	62205	29	25.965	17.410
61929	10	25.555	14.050	62001	24	8.646	22.845					62134*	22	14.792	9.369	62206	14	1.680	18.034
61930*	53	1.306	15.029	62002	17	9.410	22.415					62135	11	18.144	9.814	62207	22	3.770	18.122
61931	10	8.900	15.640	62003*	44	13.575	22.600					62136	15	20.329	9.908	62208	34	5.152	18.165
61932	19	9.408	15.648	62004	12	16.289	22.938					62137	12	21.103	9.006	62209	25	5.390	18.655
61933	15	9.803	15.002	62005	11	21.300	22.771					62138	21	24.678	9.856	62210	11	7.085	18.333
61934	17	10.278	15.870	62006	53	0.236	23.025					62139	20	0.060	10.860	62211	15	8.306	18.138
61935	21	14.030	15.258	62007	13	3.525	23.064					62140	12	2.210	10.323	62212	22	10.308	18.870
61936	43	15.640	15.071	62008	23	10.075	23.760					62141	22	4.450	10.978	62213	10	17.204	18.611
61937*	37	17.523	15.299	62009	32	10.722	23.038					62142	14	13.722	10.842	62214	24	17.800	18.480
61938	10	19.150	15.003	62010	34	13.886	23.500					62143*	49	14.380	10.623	62215	12	19.266	18.484
61939	10	19.519	15.251	62011	10	19.319	23.682					62144	14	15.012	10.320	62216	15	19.548	18.964
61940	10	20.937	15.308	62012	11	19.454	23.654					62145	10	19.321	10.962	62217	14	21.531	18.522
61941	30	24.673	15.900	62013	13	20.452	23.818					62146	20	19.506	10.038	62218	14	22.014	18.176
61942	23	25.020	15.690	62014	29	23.159	23.936					62147	17	3.049	11.982	62219	17	23.390	18.493
61943	27	4.700	16.672	62015	26	23.792	23.619					62148	12	5.120	11.175	62220	15	6.636	19.796
61944	16	7.424	16.196	62016	10	6.412	24.279					62149	20	10.055	11.338	62221	29	7.416	19.645
61945	9	11.592	16.712	62017	18	8.186	24.533					62150	14	12.574					



62227*	56	22.510	19.476	62305	22	10.324	0.625	62377	10	21.180	10.424	62449	24	25.584	19.582	62514	12	2.296	1.630
62228	17	6.382	20.939	62306	14	10.452	0.568	62378	10	23.761	10.042	62450	50	25.710	19.016	62515	30	2.792	1.018
62229	12	9.582	20.466	62307	9	10.688	0.482	62379	18	24.062	10.450	62451	10	2.024	20.278	62516	20	4.835	1.410
62230	10	9.770	20.372	62308	15	10.934	0.399	62380	14	9.901	11.963	62452	11	2.600	20.266	62517	27	5.240	1.494
62231	16	10.420	20.034	62309	19	10.949	0.514	62381	13	10.189	11.054	62453	11	17.960	20.422	62518	30	8.531	1.510
62232	13	11.606	20.925	62310	8	20.207	0.312	62382	20	12.462	11.138	62454	11	20.025	20.602	62519	29	9.718	1.262
62233	21	13.620	20.695	62311	17	24.980	0.350	62383	8	13.354	11.812	62455	38	21.938	20.048	62520*	34	10.018	1.100
62234	13	16.810	20.945	62312	16	3.756	1.450	62384	16	14.448	11.582	62456	18	3.775	21.020	62521	10	11.476	1.792
62235	60	21.360	20.819	62313	10	3.774	1.947	62385	32	14.600	11.191	62457	27	8.818	21.368	62522	10	11.550	1.302
62236	10	23.852	20.060	62314	15	12.000	1.512	62386	24	18.819	11.074	62458	24	9.444	21.993	62523*	42	14.060	1.086
62237	10	24.335	20.479	62315	9	14.568	1.612	62387	20	20.727	11.252	62459	25	12.944	21.254	62524	33	18.606	1.599
62238	12	5.212	21.196	62316	18	16.678	1.504	62388*	62	24.773	11.856	62460	28	15.014	21.502	62525	11	18.745	1.671
62239	12	5.314	21.936	62317	20	2.574	2.430	62389	13	0.628	12.054	62461	13	16.480	21.454	62526	10	19.376	1.530
62240	11	7.322	21.407	62318*	42	3.852	2.380	62390*	72	2.622	12.808	62462	20	3.792	22.769	62527	26	20.599	1.238
62241*	34	11.358	21.060	62319	15	9.560	2.164	62391*	35	8.736	12.712	62463	18	6.216	22.236	62528	40	21.554	1.820
62242	13	15.640	21.391	62320	33	10.700	2.587	62392	9	11.516	12.575	62464	26	7.618	22.856	62529	10	23.997	1.102
62243	10	17.058	21.690	62321*	53	23.530	2.857	62393	11	12.441	12.177	62465*	34	9.214	22.318	62530	29	25.294	1.048
62244	10	19.802	21.938	62322	17	0.816	3.525	62394	30	18.945	12.904	62466*	58	15.468	22.244	62531*	41	8.089	2.180
62245	18	25.492	21.258	62323	26	1.543	3.660	62395	10	22.201	12.226	62467	22	18.486	22.459	62532	21	12.726	2.740
62246	31	4.522	22.011	62324	10	1.652	3.397	62396	12	22.418	12.911	62468	29	18.985	22.819	62533	31	14.474	2.924
62247	19	5.881	22.016	62325	14	2.106	3.916	62397	13	3.227	13.796	62469	10	25.838	22.300	62534	12	16.278	2.740
62248	19	6.573	22.028	62326	13	11.571	3.021	62398*	39	11.657	13.047	62470*	42	2.327	23.274	62535	16	18.748	2.228
62249	19	10.700	22.460	62327	10	14.222	3.567	62399	24	20.274	13.065	62471	30	6.202	23.414	62536	34	20.278	2.598
62250*	48	10.834	22.828	62328*	40	14.297	3.650	62400	11	21.955	13.474	62472	14	7.384	23.407	62537	18	20.456	2.582
62251	20	17.992	22.018	62329	13	16.948	3.488	62401	20	2.580	14.195	62473	29	7.651	23.480	62538	31	20.496	2.550
62252	15	20.240	22.494	62330	14	18.493	3.145	62402	13	7.818	14.703	62474	20	8.061	23.611	62539	32	21.711	2.159
62253*	49	8.970	23.336	62331*	53	18.656	3.819	62403	23	21.152	14.724	62475*	39	14.750	23.704	62540	22	22.918	2.910
62254	20	13.796	23.724	62332*	30	21.228	3.844	62404	17	22.884	14.254	62476	10	22.884	23.102	62541	20	23.685	2.971
62255*	42	24.004	23.480	62333	10	9.060	4.585	62405	14	23.132	14.650	62477	16	19.688	24.206	62542	20	23.791	2.304
62256	16	25.476	23.007	62334	10	9.223	4.144	62406	19	23.284	14.294	62478	9	20.637	24.220	62543	10	25.577	2.954
62257	23	0.934	24.326	62335	21	12.893	4.024	62407	8	23.762	14.490	62479	9	2.261	25.452	62544	10	25.581	2.949
62258	20	1.570	24.008	62336	10	14.152	4.857	62408	25	1.230	15.094	62480	15	3.462	25.796	62545*	53	1.364	3.542
62259	30	6.814	24.278	62337*	112	14.971	4.998	62409	16	1.422	15.450	62481	19	9.346	25.206	62546	12	1.874	3.580
62260	38	10.496	24.476	62338	19	18.262	4.238	62410	21	5.410	15.806	62482	10	19.630	25.197	62547	25	5.250	3.612
62261	16	11.397	24.236	62339	14	18.595	4.893	62411	10	8.494	15.042	62483	25	21.484	25.952	62548	19	5.730	3.676
62262*	47	12.077	24.321	62340*	34	21.794	4.070	62412	19	11.450	15.652					62549	33	9.327	3.878
62263	40	16.840	24.902	62341	33	22.234	4.190	62413	20	14.052	15.009					62550*	49	15.979	3.834
62264*	44	18.414	24.434	62342	10	0.233	5.910	62414	9	18.492	15.726					62551	26	19.462	3.392
62265	13	18.570	24.330	62343*	53	5.320	5.212	62415	12	19.146	15.754					62552	20	23.090	3.410
62266	16	0.960	25.071	62344	10	14.258	5.422	62416	27	6.414	16.136					62553	37	24.258	3.038
62267	24	8.134	25.655	62345	20	14.582	5.883	62417*	42	9.123	16.210					62554	34	24.611	3.881
62268*	37	8.633	25.490	62346	13	14.919	5.210	62418	14	12.693	16.352					62555	34	0.090	4.890
62269	17	10.374	25.186	62347	14	16.732	5.614	62419	8	17.228	16.384					62556	10	0.915	4.400
62270	24	12.178	25.978	62348	10	17.828	5.636	62420	18	19.267	16.950					62557	11	1.898	4.989
62271	34	13.354	25.406	62349	27	24.092	5.528	62421	8	19.333	16.371					62558	12	5.436	4.598
62272	19	20.825	25.580	62350	32	2.918	6.967	62422	35	25.452	16.866					62559	10	8.665	4.441
<b>R.A. 15<sup>h</sup> 24<sup>m</sup></b> Plate 1683; 1920 June 9. <i>Provisional Constants.</i> A      B      C -01731 +01488 -1626 D      E      F -01501 -01757 -3004 Mag.=16.6-1.05√d				62351	19	10.249	6.635	62423	26	25.564	16.650					62560	10	13.658	4.200
				62352	8	11.055	6.798	62424	20	25.999	16.534					62561	13	15.136	4.049
				62353	8	11.573	6.304	62425	18	3.183	17.152					62562	18	15.442	4.922
				62354*	39	20.664	6.560	62426	24	4.164	17.160					62563	10	15.469	4.883
				62355	34	23.075	6.946	62427*	58	9.398	17.846					62564	13	16.886	4.024
				62356	9	25.575	6.789	62428	26	9.									



62586	10	21.708	5.776	62658	34	6.682	11.836	62730	22	20.425	18.630	62802	12	15.130	25.830	62887	14	22.766	3.300
62587	28	1.964	6.207	62659	26	10.053	11.036	62731	15	23.544	18.142	62803	12	16.950	25.042	62888	21	0.774	4.883
62588	15	4.820	6.910	62660*	41	10.980	11.920	62732	29	0.318	19.890	62804	22	18.939	25.315	62889	31	2.510	4.092
62589	21	13.180	6.753	62661	16	15.448	11.015	62733	13	0.738	19.342	62805*	34	19.059	25.350	62890	9	12.990	4.161
62590	34	15.045	6.298	62662*	45	16.042	11.985	62734	28	1.602	19.405	62806	32	19.700	25.222	62891	12	15.072	4.281
62591	26	16.041	6.859	62663	43	16.632	11.432	62735*	61	3.726	19.678	62807	12	20.518	25.762	62892	32	1.284	5.174
62592	10	17.444	6.046	62664	10	17.090	11.396	62736	10	7.611	19.622	62808	11	21.705	25.647	62893	38	5.705	5.746
62593	10	21.328	6.365	62665	11	21.072	11.310	62737	19	21.270	19.448	62809	31	21.876	25.670	62894	15	10.239	5.479
62594	23	22.108	6.142	62666	28	23.522	11.929	62738	20	23.748	19.421	62810	36	22.384	25.130	62895	15	10.914	5.488
62595	13	22.230	6.786	62667	10	24.256	11.474	62739*	46	24.706	19.359	62811	15	22.419	25.238	62896	28	12.720	5.770
62596	20	23.318	6.995	62668	14	0.149	12.925	62740	34	25.615	19.920	62812	34	23.250	25.256	62897	24	23.370	5.128
62597	23	24.260	6.151	62669*	88	2.706	12.528	62741	26	1.306	20.311	62813	32	24.535	25.860	62898	26	24.440	5.549
62598	11	25.504	6.242	62670	25	5.801	12.962	62742	12	2.470	20.502					62899	39	25.768	5.620
62599	35	0.960	7.637	62671	31	6.791	12.837	62743	26	3.612	20.241					62900	14	0.028	6.373
62600	25	3.180	7.821	62672	33	7.288	12.002	62744	13	4.743	20.145					62901	13	2.180	6.366
62601	12	3.459	7.450	62673	30	7.638	12.806	62745	10	9.446	20.191					62902	10	8.290	6.307
62602	10	6.499	7.696	62674	19	13.390	12.387	62746	10	11.193	20.055					62903	16	13.512	6.921
62603	20	9.630	7.480	62675	15	13.454	12.072	62747	29	20.224	20.545					62904	18	15.391	6.315
62604	10	10.038	7.046	62676	27	21.304	12.136	62748	13	20.744	20.062					62905	13	16.808	6.230
62605	10	19.140	7.968	62677*	39	24.850	12.383	62749	15	21.469	20.996					62906	12	23.244	6.054
62606	12	20.660	7.490	62678	20	0.374	13.609	62750	15	2.839	21.290					62907*	74	23.324	6.309
62607	10	24.974	7.920	62679*	46	11.364	13.711	62751	10	3.282	21.968					62908	11	1.248	7.214
62608	24	0.735	8.886	62680	32	12.500	13.396	62752	26	5.104	21.491					62909	9	6.140	7.521
62609	26	3.190	8.116	62681*	42	13.844	13.048	62753	29	5.211	21.058					62910	19	7.970	7.804
62610	11	5.165	8.577	62682	25	14.750	13.518	62754	24	7.780	21.023					62911	17	17.684	7.668
62611*	62	5.507	8.918	62683	15	23.970	13.225	62755	16	9.347	21.080					62912	65	25.634	7.148
62612	18	8.503	8.374	62684	20	0.853	14.946	62756	31	9.835	21.036					62913	27	0.457	8.820
62613	10	8.860	8.267	62685	10	1.236	14.774	62757*	105	11.997	21.954					62914	27	2.488	8.673
62614*	120	13.973	8.942	62686	22	1.254	14.983	62758	10	12.100	21.101					62915	31	6.956	8.664
62615	20	17.210	8.780	62687	10	1.404	14.866	62759	39	13.547	21.444					62916	31	9.009	8.027
62616*	64	17.838	8.966	62688	10	3.005	14.411	62760	14	15.307	21.620					62917	14	10.870	8.157
62617	12	18.146	8.916	62689	10	16.675	14.116	62761	10	15.470	21.738					62918	13	12.890	8.063
62618*	35	19.838	8.380	62690	10	17.388	14.716	62762	42	21.527	21.570					62919	26	14.187	8.670
62619	10	21.962	8.560	62691	29	20.984	14.716	62763	29	22.156	21.700					62920	13	15.192	8.686
62620	27	22.514	8.594	62692	19	1.105	15.339	62764	22	22.902	21.263					62921	34	19.267	8.169
62621	10	24.110	8.054	62693	12	1.734	15.170	62765	14	23.927	21.374					62922	10	19.776	8.560
62622	31	24.547	8.464	62694	25	9.679	15.594	62766	11	3.898	22.956					62923	9	21.125	8.342
62623	30	1.128	9.631	62695	12	10.390	15.858	62767	15	4.513	22.166					62924	10	12.956	9.600
62624	12	3.330	9.741	62696*	48	12.884	15.915	62768*	39	5.642	22.291					62925	13	14.407	9.776
62625*	35	4.953	9.518	62697*	82	14.841	15.831	62769	12	6.624	22.094					62926	28	21.046	9.780
62626	12	5.040	9.435	62698	18	15.029	15.346	62770	31	14.036	22.876					62927*	52	5.866	10.330
62627	10	5.516	9.740	62699	25	16.868	15.684	62771	11	18.410	22.226					62928	20	14.050	10.673
62628	17	7.372	9.721	62700	9	19.479	15.518	62772	13	22.114	22.274					62929	26	14.170	10.456
62629	23	7.388	9.002	62701	12	19.662	15.600	62773	14	24.509	22.463					62930	11	15.410	10.164
62630	26	9.875	9.792	62702	21	20.120	15.989	62774	13	1.550	23.970					62931	18	15.586	10.156
62631	31	12.130	9.525	62703*	62	20.770	15.880	62775	10	6.225	23.968					62932	27	20.576	10.300
62632	11	14.814	9.146	62704	12	24.092	15.082	62776	23	9.748	23.022					62933	14	20.798	10.588
62633	10	15.925	9.188	62705	12	24.735	15.549	62777	35	10.776	23.012					62934	32	24.579	10.348
62634	17	21.920	9.150	62706	24	24.898	15.741	62778	12	13.268	23.366					62935*	16	2.570	11.064
62635	21	1.150	10.382	62707	13	25.064	15.365	62779	12	16.988	23.630					62936	19	5.475	11.206
62636	11	1.684	10.726	62708	30	25.490	15.914	62780	9	18.835	23.767					62937	20	6.850	11.146
62637	13	5.324	10.517	62709	10	13.578	16.990	62781	12	19.355	23.895					62938	31	10.223	11.098
62638	22	5.332	10.161	62710	30	15.638	16.950	62782	14	20.826	23.507					62939	14	12.140	11.764
62639	29	8.950	10.062	62711	16	15.960	16.899	62783	28	21.924	23.788					62940*	58	17.392	11.669
62640	12	9.468	10.922	62712	10	16.990	16.772	62784	10	22.470	23.847					62941	13	19.780	11.422
62641	10	12.233	10.199	62713	16	19.158	16.844	62785	13	24.000	23.388					62942*	46	20.840	11.503
62642	22	18.816	10.650	62714	12	1.234	17.747	62786	12	6.526	24.785					62943	12	24.699	11.104
62643	23	19.330	10.328	62715	34	3.450	17.525	62787	12	7.122	24.236					62944	28	1.497	12.146
62644*	43	20.764	10.973	62716	28	3.560	17.311	62788	12	14.600	24.186					62945*	42	2.826	12.590
62645	11	21.208	10.796	62717	22	3.995	17.189	62789	10	17.634	24.414					62946	16	6.330	12.236
62646	24	21.982	10.992	62718	21	4.516	17.324	62790	12	18.050	24.940					62947	18	10.154	12.508
62647	14	23.011	10.232	62719	10	5.386	17.251	62791	16	18.830	24.821					62948	18	10.384	12.294
62648	12	23.988	10.638	62720*	73	8.170	17.586	62792*	34	19.015	24.374					62949	34	15.752	12.895
62649*	24	24.288	10.853	62721	10	13.420	17.506	62793	12	21.196	24.294					62950	13	1.956	13.440
62650	10	25.665	10.232	62722	34	15.450	17.314	62794	14	21.560	24.999					62951	17	8.050	13.074
62651	11	0.276	11.732	62723	26	20.040	17.224	62795	36	22.380	24.515					62952	9	9.944	13.400
62652	22	1.988	11.129	62724	14	20.300	17.810	62796	29	25.486	24.281					62953	16	13.665	13.856
62653	12	3.550	11.400	62725	44	22.326	17.288	62797	11	1.590	25.854					62954	28	15.328	13.692
62654	20	4.170	11.012	62726</															



62959	11	16.890	14.103	63031	30	1.350	25.474	63092	34	5.674	4.566	63164	25	23.921	11.084	63236*	62	11.406	20.269
62960	14	17.768	14.630	63032	23	6.875	25.335	63093	16	5.689	4.568	63165	16	2.674	12.394	63237	27	17.430	20.238
62961	34	17.950	14.920	63033	10	7.080	25.860	63094	13	5.924	4.524	63166	28	16.646	12.387	63238*	56	20.430	20.975
62962	13	18.445	14.827	63034*	44	8.718	25.160	63095	15	11.286	4.816	63167	15	18.214	12.536	63239	20	23.490	20.700
62963	9	18.912	14.076	63035	32	8.956	25.798	63096	27	12.334	4.846	63168	27	19.560	12.602	63240	35	24.700	20.067
62964*	61	24.030	14.719	63036	27	12.254	25.128	63097	34	12.520	4.400	63169	11	0.445	13.296	63241	17	5.996	21.674
62965	9	2.742	15.754	63037	14	15.313	25.248	63098	18	12.786	4.644	63170	24	7.478	13.287	63242	38	7.757	21.280
62966	15	2.906	15.948	63038	24	16.362	25.846	63099	19	14.336	4.528	63171	23	17.584	13.854	63243	30	9.654	21.800
62967	14	7.802	15.744					63100	24	15.556	4.424	63172	19	18.891	13.704	63244	20	12.548	21.916
62968	18	9.722	15.020					63101	39	18.444	4.474	63173	15	21.906	13.652	63245	26	13.895	21.800
62969*	47	16.379	15.190					63102	17	1.170	5.952	63174*	54	25.482	13.628	63246	21	14.918	21.424
62970	34	24.093	15.770					63103	31	1.284	5.026	63175	38	25.926	13.726	63247	13	16.976	21.806
62971	20	3.500	16.114					63104	38	2.361	5.440	63176*	60	2.020	14.612	63248	37	19.762	21.144
62972	21	10.630	16.566					63105	40	3.686	5.499	63177	34	6.089	14.504	63249	28	22.184	21.586
62973	27	16.428	16.556					63106	30	11.594	5.124	63178	30	17.209	14.827	63250*	39	23.225	21.268
62974*	36	18.490	16.402					63107	20	15.606	5.306	63179*	100	21.970	14.594	63251	13	23.682	21.979
62975	15	20.856	16.074					63108	37	16.512	5.123	63180	26	22.884	14.396	63252	16	12.553	22.076
62976	11	24.771	16.156					63109	18	22.225	5.065	63181	21	23.600	14.150	63253	14	13.810	22.375
62977	12	25.382	16.849					63110	16	25.372	5.436	63182	37	2.098	15.664	63254	16	16.854	22.068
62978	44	0.349	17.516					63111*	77	1.242	6.206	63183	13	4.064	15.064	63255	25	17.556	22.764
62979	10	5.448	17.188					63112	36	4.785	6.554	63184	27	8.144	15.097	63256	17	0.825	23.228
62980	27	7.650	17.548					63113	15	5.419	6.180	63185	37	12.368	15.786	63257	15	1.635	23.705
62981	26	12.590	17.120					63114	16	5.778	6.614	63186	12	13.283	15.672	63258	42	3.052	23.734
62982	10	22.776	17.130					63115	26	7.952	6.337	63187*	44	14.380	15.492	63259	15	3.454	23.164
62983	9	1.575	18.356					63116	34	10.280	6.172	63188	22	18.364	15.976	63260	30	7.834	23.997
62984	22	4.096	18.585					63117	28	12.752	6.488	63189*	64	18.840	15.036	63261	17	8.762	23.297
62985	14	4.470	18.435					63118	38	14.820	6.209	63190	20	20.474	15.976	63262	38	13.150	23.444
62986	11	8.516	18.913					63119*	46	15.414	6.688	63191*	58	21.758	15.708	63263	17	13.789	23.601
62987*	61	10.328	18.533					63120*	54	16.111	6.386	63192	20	22.424	15.666	63264*	47	16.528	23.876
62988	9	13.528	18.726					63121	16	16.764	6.732	63193	16	23.046	15.680	63265	20	18.122	23.426
62989	17	13.676	18.400					63122*	52	19.706	6.195	63194	25	23.855	15.851	63266	15	19.090	23.128
62990	29	20.618	18.852					63123*	70	3.560	7.025	63195	12	25.254	15.807	63267*	59	20.916	23.240
62991	9	24.046	18.228					63124	30	5.687	7.906	63196	15	2.782	16.045	63268	12	22.114	23.408
62992	13	1.790	19.635					63125*	39	6.476	7.862	63197	17	3.400	16.734	63269	28	22.332	23.995
62993*	54	2.746	19.564					63126	34	8.866	7.472	63198	38	7.700	16.376	63270	13	0.120	24.407
62994*	46	4.855	19.735					63127	18	11.930	7.945	63199*	76	8.088	16.866	63271	35	3.223	24.482
62995	16	10.485	19.823					63128	15	12.064	7.654	63200	37	8.301	16.350	63272	30	10.480	24.670
62996	13	13.071	19.186					63129	14	13.155	7.603	63201	38	10.550	16.762	63273	20	11.698	24.516
62997	21	14.260	19.480					63130	13	14.638	7.926	63202	22	12.868	16.350	63274	11	13.440	24.826
62998	10	19.026	19.125					63131	27	17.472	7.942	63203	32	15.240	16.686	63275*	35	13.686	24.811
62999	9	21.900	19.262					63132	17	21.210	7.745	63204	17	18.288	16.404	63276	13	15.384	24.182
63000	36	3.660	20.120					63133	15	22.798	7.076	63205	25	19.894	16.156	63277	29	25.524	24.624
63001	14	14.676	20.103					63134	36	23.504	7.506	63206	13	21.034	16.578	63278	13	4.456	25.985
63002	9	23.765	20.510					63135	30	24.397	7.415	63207	36	21.500	16.529	63279	42	4.898	25.005
63003	21	0.222	21.930					63136	84	25.592	7.636	63208	14	0.794	17.034	63280	32	16.186	25.026
63004	16	0.962	21.485					63137	16	3.212	8.775	63209	31	9.434	17.686				
63005	26	10.761	21.761					63138*	46	5.254	8.571	63210	13	9.954	17.658				
63006	18	17.674	21.757					63139	37	6.338	8.746	63211*	38	11.930	17.701				
63007	26	17.720	21.388					63140	20	7.222	8.188	63212*	42	12.500	17.516				
63008	23	17.790	21.216					63141	13	8.606	8.088	63213	39	16.240	17.194				
63009	9	0.189	22.501					63142	38	10.994	8.272	63214	18	18.805	17.956				
63010	14	9.566	22.289					63143*	39	18.068	8.184	63215	14	20.055	17.417				
63011*	42	19.701	22.666					63144	23	22.306	8.930	63216	38	23.435	17.202				
63012	14	11.730	23.068					63145*	140	23.290	8.672	63217	15	2.074	18.122				
63013	14	12.998	23.234					63146	37	25.566	8.146	63218	12	9.065	18.236				
63014	10	14.892	23.900					63147	37	10.482	9.784	63219	23	10.500	18.414				
63015	10	15.334	23.970					63148	24	16.694	9.152	63220	37	10.893	18.708				
63016	12	16.540	23.964					63149	26	17.041	9.666	63221	30	11.746	18.602				
63017	11	22.750	23.322					63150	26	24.374	9.799	63222	26	11.880	18.114				
63018	10	23.555	23.810					63151	28	24.419	9.035	63223	14	13.534	18.994				
63019	45	24.979	23.849					63152	37	2.538	10.236	63224	32	18.234	18.387				
63020	21	0.006	24.020					63153	20	2.666	10.991	63225	28	19.204	18.914				
63021	34	0.472	24.740					63154	19	4.830	10.188	63226*	42	20.336	18.314				
63022	25	3.573	24.478					63155	15	7.846	10.963	63227	25	24.695	18.370				
63023	14	9.416	24.966					63156	11	11.380	10.026	63228	30	4.979	19.794				
63024	13	14.910	24.692					63157	16	11.500	10.686	63229	20	13.762	19.616				
63025	11	19.050	24.660					63158	21	14.506	10.678	63230	12	14.050	19.686				
63026	21	19.075	24.861					63159	21	7.964	11.464	63231	21	18.533	19.634				
63027*	50	21.800	24.274					63160	12	11.186	11.144	63232	22	22.966	19.048				
63028	9	22.038	24.498					63161	14	11.820	11.116	63233	24	25.710	19.261				
63029	27	25.139	24.598					63162	16	14.208	11.182	63234	30	9.120	20.964				
63030	34	0.480	25.358					63163	23	22.937	11.258	63235	25	9.988	20.407				



63305	13	14.066	0.808	63377	9	9.367	9.650	63449	23	24.239	17.832	63521	19	8.341	25.476	63595	10	24.104	4.222
63306	10	24.603	0.650	63378	13	18.603	9.408	63450	15	2.912	18.791	63522	9	8.608	25.792	63596	23	0.618	5.773
63307	32	25.842	0.148	63379	24	23.088	9.056	63451	13	4.273	18.440	63523	18	16.700	25.015	63597*	175	4.308	5.289
63308	11	0.443	1.046	63380	15	2.406	10.228	63452	8	9.945	18.890	63524	17	23.768	25.122	63598	21	13.262	5.614
63309	14	3.978	1.310	63381	8	6.226	10.182	63453	27	11.464	18.978					63599*	30	14.920	5.611
63310	15	9.374	1.226	63382	19	6.276	10.908	63454	11	16.853	18.115					63600	23	16.269	5.642
63311	9	15.444	1.752	63383	18	13.688	10.608	63455	24	19.175	18.768					63601	10	20.273	5.620
63312	9	19.606	1.588	63384	16	19.060	10.972	63456	22	21.850	18.025					63602	24	22.325	5.501
63313*	43	21.074	1.002	63385	15	21.067	10.981	63457	22	25.824	18.350					63603	12	25.670	5.248
63314	11	1.472	2.882	63386	19	23.546	10.236	63458	10	1.198	19.504					63604	15	5.333	6.186
63315	20	3.066	2.326	63387*	44	23.968	10.994	63459	18	3.945	19.658					63605*	29	7.905	6.435
63316*	41	7.600	2.370	63388	11	1.000	11.718	63460	27	4.478	19.846					63606*	48	9.225	6.300
63317*	43	9.252	2.769	63389	16	1.982	11.523	63461	11	4.718	19.438					63607	17	17.278	6.767
63318	17	9.794	2.410	63390	13	5.106	11.922	63462	17	4.761	19.478					63608	15	23.042	6.049
63319*	29	16.068	2.971	63391	8	6.700	11.362	63463	21	5.364	19.236					63609	10	23.860	6.086
63320*	56	23.234	2.612	63392*	66	10.734	11.068	63464	18	12.492	19.854					63610	15	4.347	7.204
63321	14	5.527	3.512	63393	11	19.709	11.278	63465	17	12.595	19.490					63611	10	4.937	7.352
63322	12	10.130	3.168	63394	13	21.278	11.334	63466	11	15.771	19.722					63612*	138	5.967	7.623
63323*	26	14.506	3.314	63395	10	24.021	11.666	63467	8	17.464	19.614					63613*	38	8.154	7.055
63324	16	17.164	3.947	63396	26	5.021	12.350	63468	20	18.644	19.630					63614	14	10.339	7.444
63325	11	22.478	3.093	63397	13	7.910	12.354	63469	12	20.432	19.123					63615	32	12.051	7.192
63326	39	22.660	3.208	63398	16	17.160	12.792	63470	8	22.776	19.557					63616	15	14.272	7.234
63327	30	23.216	3.841	63399	16	19.828	12.530	63471*	64	23.452	19.073					63617	10	14.366	7.318
63328	14	23.618	3.930	63400	37	25.533	12.063	63472	23	2.950	20.487					63618	11	16.914	7.224
63329*	46	23.858	3.084	63401	8	11.646	13.338	63473	8	10.146	20.548					63619	15	17.398	7.198
63330	28	9.040	4.580	63402	18	12.412	13.349	63474*	84	13.064	20.776					63620	12	17.430	7.141
63331	10	10.476	4.238	63403	8	13.360	13.805	63475	26	18.700	20.453					63621	19	18.530	7.331
63332	17	11.144	4.030	63404	20	13.400	13.692	63476*	45	18.940	20.099					63622	12	20.518	7.397
63333	12	12.775	4.613	63405*	39	20.345	13.342	63477	14	18.952	20.129					63623	24	3.042	8.323
63334	16	15.920	4.595	63406	11	23.421	13.426	63478	18	20.135	20.520					63624*	50	6.070	8.498
63335	16	21.943	4.260	63407	15	1.016	14.855	63479	8	20.190	20.817					63625	29	6.838	8.880
63336*	40	22.692	4.138	63408	14	1.722	14.594	63480	17	23.545	20.493					63626	13	7.914	8.116
63337	10	0.158	5.540	63409*	43	3.592	14.030	63481*	34	1.500	21.719					63627	32	11.444	8.282
63338	9	3.312	5.846	63410	32	4.040	14.122	63482	10	1.758	21.143					63628	23	14.316	8.700
63339	14	6.376	5.583	63411	28	7.826	14.462	63483	16	5.236	21.336					63629	15	23.305	8.631
63340	35	7.734	5.773	63412	10	11.662	14.700	63484	22	5.750	21.134					63630	17	24.817	8.840
63341	15	13.292	5.830	63413	11	17.666	14.350	63485	20	8.956	21.112					63631	27	1.006	9.110
63342	11	14.012	5.242	63414	9	23.869	14.327	63486	15	9.656	21.137					63632	14	9.959	9.439
63343	18	14.028	5.078	63415	16	24.502	14.746	63487	12	9.970	21.988					63633	19	10.968	9.580
63344	16	22.738	5.716	63416	82	0.098	15.074	63488	27	14.962	21.947					63634*	39	18.234	9.862
63345	23	5.098	6.772	63417	10	2.734	15.416	63489	12	16.440	21.973					63635	28	20.555	9.448
63346	8	5.837	6.569	63418*	29	8.718	15.047	63490	10	17.576	21.900					63636	10	20.870	9.448
63347	31	7.660	6.882	63419	8	9.746	15.670	63491	31	21.993	21.318					63637	25	1.480	10.284
63348	15	8.510	6.080	63420	9	10.700	15.846	63492	9	0.470	22.058					63638	13	8.886	10.160
63349	22	10.768	6.982	63421	17	11.966	15.994	63493	33	4.431	22.529					63639*	46	18.444	10.341
63350*	42	13.436	6.339	63422	15	12.234	15.020	63494	15	4.964	22.018					63640*	100	25.482	10.364
63351	18	13.650	6.721	63423	17	14.486	15.788	63495	15	11.269	22.428					63641	22	25.569	10.662
63352	14	16.626	6.795	63424	18	16.769	15.242	63496	24	16.681	22.081					63642*	42	1.908	11.034
63353	8	21.268	6.302	63425	9	17.374	15.908	63497	17	16.860	22.923					63643	13	1.975	11.710
63354	8	0.773	7.539	63426	8	19.714	15.176	63498	11	25.285	22.552					63644	28	4.460	11.000
63355	22	1.486	7.952	63427	13	23.260	15.890	63499	12	25.726	22.704					63645	13	6.463	11.129
63356	19	2.376	7.843	63428	19	24.220	15.753	63500	8	25.830	22.221					63646	26	7.440	11.876
63357	11	11.643	7.926	63429*	42	24.638	15.980	63501	35	25.852	22.793					63647	20	13.594	11.381
63358	18	17.892	7.782	63430	8	0.581	16.136	63502	9	5.581	23.712					63648	25	18.543	11.864
63359	32	21.162	7.992	63431	12	1.206	16.138	63503	26	7.326	23.558					63649	26	19.506	11.088
63360	8	21.520	7.476	63432	15	2.017	16.290	63504*	34	9.769	23.994					63650*	36	20.662	11.408
63361	21	3.562	8.550	63433	8	3.417	16.214	63505*	44	10.921	23.010					63651	35	22.600	11.294
63362*	77	3.572	8.039	63434	18	5.172	16.564	63506	21	11.141	23.628					63652	26	23.390	11.351
63363*	36	7.051	8.914	63435	19	8.305	16.206	63507	24	14.210	23.059					63653	10	1.794	12.586
63364	26	12.372	8.386	63436	18	13.085	16.498	63508	11	16.400	23.140					63654	36	3.489	12.087
63365	18	12.488	8.632	63437	10	15.360	16.180	63509*	38	17.288	23.482					63655	33	4.876	12.684
63366	20	14.788	8.318	63438	8	16.015	16.664	63510	14	19.844	23.388					63656	34	15.964	12.551
63367	31	16.011	8.916	63439	16	18.862	16.946	63511	9	24.324	23.542					63657	13	18.534	12.838
63368*	60	21.250	8.003	63440	8	22.059	16.318	63512	14	0.672	24.464					63658	15	18.703	12.159
63369	20	25.132	8.294	63441	28	1.627	17.708	63513	25	9.260	24.744					63659	23	20.906	12.712
63370	13	0.320	9.404	63442	23	4.329	17.588	63514	17	12.055	24.875					63660	24	20.908	12.934
63371*	108	1.292	9.126	63443	39	12.089	17.726	63515	9	12.080	24.787					63661	23	22.525	12.626
63372	16	2.434	9.462	63444	29	13.562	17.475	63516	12	12.666	24.079					63662	14	1.394	13.474
63373*	56	4.950	9.486	63445	14	14.840	17.530	63517	26	18.114	24.772					63663	14	4.246	13.004
63374	15	7.557	9.166	63446	8	15.526	17.830	63518	24	23.312	2								



63667	10	17.896	13.941	63739	37	3.938	22.813	63808	11	23.909	1.937	63880	25	22.596	12.636	63952	31	7.670	20.711
63668*	39	18.992	13.642	63740	12	7.876	22.510	63809	27	0.288	2.100	63881	13	23.733	12.652	63953	19	11.098	20.989
63669*	84	23.280	13.823	63741	13	8.643	22.844	63810	25	3.387	2.780	63882	22	23.762	12.346	63954	9	11.300	20.956
63670	27	23.743	13.438	63742	16	10.344	22.722	63811	13	18.126	2.550	63883	25	23.898	12.890	63955	11	12.415	20.985
63671	31	25.128	13.264	63743*	82	14.122	22.767	63812	24	5.860	3.590	63884	18	0.628	13.080	63956*	46	12.652	20.117
63672	13	1.853	14.372	63744	13	16.470	22.279	63813	13	8.452	3.076	63885	28	1.850	13.872	63957	23	17.405	20.454
63673	19	2.492	14.782	63745	15	17.977	22.674	63814	19	15.620	3.516	63886	30	3.234	13.700	63958	13	23.672	20.690
63674	10	3.877	14.857	63746*	40	24.551	22.799	63815	24	23.966	3.920	63887*	104	10.430	13.085	63959	10	24.199	20.894
63675*	53	6.979	14.032	63747*	52	25.076	22.499	63816	26	9.480	4.741	63888	31	13.600	13.327	63960	29	1.581	21.606
63676	32	16.558	14.259	63748	24	25.620	22.211	63817	28	14.096	4.960	63889	18	20.180	13.321	63961	14	2.704	21.031
63677	12	20.268	14.865	63749	10	1.546	23.272	63818	26	17.245	4.876	63890	36	21.546	13.289	63962	25	4.610	21.294
63678	19	21.750	14.162	63750	26	7.759	23.982	63819	14	25.200	4.970	63891	19	22.685	13.184	63963	10	12.300	21.174
63679	15	23.730	14.500	63751	20	8.571	23.862	63820	22	0.370	5.958	63892	10	23.706	13.582	63964	18	14.691	21.692
63680	10	25.399	14.062	63752	10	8.672	23.178	63821	9	6.070	5.720	63893	14	23.712	13.962	63965	13	17.852	21.452
63681	18	1.264	15.942	63753	34	8.706	23.319	63822	12	9.212	5.720	63894*	81	1.384	14.271	63966	29	19.327	21.428
63682	21	2.224	15.793	63754	28	8.728	23.872	63823	9	19.548	5.328	63895	9	3.509	14.494	63967	45	2.419	22.382
63683	19	8.345	15.070	63755	36	14.534	23.622	63824	40	22.124	5.877	63896	17	10.591	14.772	63968*	67	3.250	22.930
63684	21	12.275	15.358	63756	21	15.314	23.411	63825	14	1.092	6.500	63897	18	16.754	14.928	63969	19	3.799	22.640
63685	29	13.384	15.928	63757*	45	15.476	23.220	63826	12	7.170	6.389	63898*	49	17.318	14.257	63970	34	5.524	22.721
63686	13	19.245	15.620	63758	18	16.901	23.536	63827*	41	10.180	6.944	63899*	40	20.060	14.803	63971	9	7.930	22.424
63687	24	25.941	15.732	63759	17	17.015	23.628	63828	22	14.826	6.682	63900	13	9.940	15.434	63972	19	10.744	22.976
63688*	37	2.640	16.014	63760	12	17.992	23.590	63829*	65	18.530	6.940	63901	26	10.937	15.192	63973	15	14.293	22.302
63689	21	6.439	16.511	63761	14	20.809	23.550	63830	20	21.014	6.316	63902	19	16.654	15.470	63974*	57	22.400	22.592
63690	33	8.646	16.613	63762*	30	22.255	23.410	63831	11	5.330	7.394	63903	12	18.080	15.417	63975*	27	0.444	23.864
63691*	34	14.990	16.764	63763	31	1.419	24.410	63832	16	13.516	7.696	63904*	57	20.009	15.508	63976*	46	2.730	23.237
63692*	33	17.260	16.036	63764	20	14.124	24.100	63833	14	20.300	7.950	63905	15	20.660	15.462	63977	17	6.797	23.310
63693	13	17.958	16.028	63765	32	18.960	24.249	63834	13	21.824	7.380	63906	40	23.990	15.164	63978	17	7.596	23.725
63694	13	1.555	17.704	63766	29	19.480	24.224	63835	9	4.292	8.170	63907	13	25.341	15.862	63979	30	8.768	23.613
63695	12	3.436	17.140	63767	12	19.734	24.144	63836	14	4.520	8.486	63908	11	25.992	15.930	63980	37	11.888	23.252
63696	15	17.736	17.494	63768	33	21.508	24.554	63837	21	7.964	8.986	63909	23	4.066	16.160	63981	15	12.783	23.810
63697	26	19.685	17.048	63769	25	1.886	25.169	63838	15	12.806	8.510	63910*	32	5.277	16.583	63982	31	13.260	23.176
63698	10	24.885	17.287	63770	38	9.086	25.752	63839	10	16.211	8.506	63911*	50	6.320	16.462	63983	24	15.952	23.938
63699	30	3.856	18.370	63771	12	11.188	25.452	63840	15	20.320	8.916	63912	33	10.250	16.824	63984	13	16.655	23.830
63700	16	5.012	18.226	63772	55	13.144	25.750	63841	10	25.566	8.756	63913	27	11.223	16.214	63985	9	23.114	23.940
63701	11	10.317	18.981	63773	26	14.308	25.022	63842	34	20.734	8.959	63914*	49	15.024	16.486	63986	24	24.600	23.726
63702	8	16.816	18.128	63774	31	16.942	25.666	63843	30	21.474	8.906	63915	20	19.900	16.016	63987	26	24.602	23.324
63703	14	20.877	18.190	63775	23	17.268	25.111	63844	10	1.377	9.080	63916	23	20.470	16.886	63988	18	5.915	24.630
63704	33	25.744	18.686	63776	12	17.734	25.010	63845	12	2.886	9.278	63917	12	24.222	16.490	63989	17	9.104	24.467
63705	15	0.826	19.615	63777	17	22.379	25.734	63846	25	5.322	9.566	63918	32	4.594	17.948	63990	14	13.690	24.561
63706*	69	1.488	19.122	63778	14	23.480	25.395	63847	27	9.548	9.604	63919	30	7.184	17.802	63991	15	14.790	24.185
63707*	66	4.582	19.387	63779	17	23.932	25.351	63848	13	10.740	9.310	63920	15	9.784	17.963	63992	27	17.737	24.500
63708	13	5.385	19.533					63849	10	12.228	9.770	63921	14	12.890	17.302	63993	17	22.134	24.229
63709	34	20.855	19.030					63850	26	24.808	9.856	63922	13	19.580	17.030	63994	80	4.760	25.804
63710*	33	23.018	19.936					63851	30	25.821	9.936	63923	25	21.780	17.944	63995	24	13.194	25.893
63711	15	24.506	19.020					63852*	105	3.554	10.796	63924	16	22.255	17.993	63996	26	14.907	25.780
63712	32	25.594	19.124					63853	9	8.236	10.532	63925*	58	24.658	17.247	63997	10	18.162	25.078
63713	35	25.880	19.631					63854	26	10.120	10.442	63926	29	24.950	17.244				
63714	24	1.605	20.541					63855	13	14.034	10.660	63927	18	25.840	17.020				
63715*	40	4.516	20.052					63856	28	25.474	10.044	63928	36	6.063	18.642				
63716	18	4.754	20.766					63857	10	0.204	11.868	63929	28	6.980	18.915				
63717	25	6.468	20.422					63858	36	0.688	11.746	63930	34	14.956	18.949				
63718	16	6.608	20.860					63859	21	1.480	11.800	63931	26	15.068	18.226				
63719	27	10.714	20.894					63860	19	3.653	11.094	63932	31	15.110	18.386				
63720*	42	11.149	20.241					63861	16	6.122	11.759	63933	14	15.698	18.172				
63721	31	17.345	20.330					63862	23	6.168	11.548	63934	30	25.460	18.440				
63722	22	20.252	20.694					63863	14	7.018	11.614	63935	31	3.747	19.554				
63723*	37	22.457	20.455					63864	14	8.393	11.736	63936	30	3.892	19.114				
63724	20	24.540	20.596					63865	14	9.766	11.642	63937	26	6.623	19.400				
63725	21	25.601	20.399					63866	27	12.183	11.320	63938	20	9.119	19.422				
63726	36	0.060	21.386					63867	27	12.762	11.850	63939	19	10.360	19.840				
63727*	44	5.822	21.684					63868	25	20.030	11.876	63940	17	13.862	19.710				
63728	14	9.220	21.728					63869	26	20.390	11.412	63941	9	17.032	19.926				
63729	25	11.402	21.215					63870	24	4.360	12.324	63942	26	17.050	19.994				
63730	12	14.268	21.992					63871	29	4.388	12.310	63943	30	18.300	19.109				
63731	13	20.292	21.219					63872	24	6.282	12.160	63944*	60	20.687	19.424				
63732	15	20.548	21.219					63873	16	6.816	12.830	63945	18	24.370	19.430				
63733	31	23.411	21.160					63874	29	8.900	12.924	63946*	41	0.618	20.910				



64005	14	18.416	1.306	64077	15	4.172	15.143	64149	25	20.578	21.142	64207*	43	17.348	1.248	64279	12	12.770	8.621
64006	22	1.523	2.426	64078	12	5.827	15.256	64150	18	22.156	21.057	64208	37	19.047	1.316	64280	17	14.490	8.258
64007	17	16.002	2.450	64079	11	10.165	15.889	64151	27	22.452	21.336	64209	14	19.448	1.478	64281	25	15.600	8.741
64008	29	25.174	2.305	64080	18	21.416	15.625	64152	33	22.624	21.592	64210	40	20.255	1.665	64282	12	18.878	8.798
64009	34	6.236	3.011	64081*	46	23.326	15.220	64153	10	25.888	21.638	64211	22	23.005	1.320	64283	20	21.710	8.080
64010	32	6.660	3.579	64082	9	23.526	15.649	64154	10	0.267	22.964	64212	17	25.770	1.513	64284	34	23.556	8.892
64011	9	11.250	3.154	64083	25	24.748	15.912	64155	10	1.832	22.240	64213	27	2.995	2.422	64285	12	25.002	8.377
64012	23	11.702	3.794	64084	27	25.756	15.224	64156	9	2.677	22.532	64214	11	4.141	2.600	64286	12	25.238	8.430
64013	24	13.309	3.464	64085	43	25.802	15.290	64157	9	8.027	22.484	64215	19	9.492	2.702	64287	24	2.365	9.266
64014	13	14.173	3.131	64086	10	1.000	16.225	64158	13	8.710	22.014	64216*	45	9.896	2.105	64288	13	8.177	9.525
64015	8	0.652	4.890	64087	16	2.047	16.973	64159	17	11.578	22.084	64217	16	11.382	2.364	64289	13	8.725	9.604
64016	26	1.607	4.408	64088	9	2.384	16.071	64160	8	18.358	22.010	64218	14	13.346	2.169	64290	31	9.372	9.916
64017	34	3.855	4.372	64089	19	3.154	16.332	64161	23	20.254	22.763	64219	18	18.034	2.766	64291	11	11.595	9.057
64018	14	2.018	5.952	64090	20	3.808	16.390	64162	10	22.708	22.262	64220	36	21.966	2.638	64292	12	12.735	9.676
64019	24	2.857	5.442	64091	9	4.800	16.370	64163	37	24.398	22.548	64221	13	9.482	3.036	64293	32	12.754	9.540
64020	28	3.920	5.360	64092	23	12.232	16.228	64164*	56	0.312	23.104	64222	22	10.849	3.018	64294	11	14.236	9.245
64021	11	4.572	5.664	64093	15	15.173	16.538	64165	32	2.528	23.804	64223	19	12.452	3.769	64295	14	16.147	9.696
64022	11	1.691	6.700	64094	10	19.354	16.448	64166	23	5.044	23.754	64224	15	17.331	3.125	64296	22	4.704	10.973
64023	9	3.360	6.862	64095*	63	22.125	16.656	64167	11	9.287	23.984	64225	17	17.455	3.396	64297	21	6.250	10.672
64024	19	12.421	6.050	64096	31	23.725	16.457	64168	10	15.652	23.929	64226	33	17.784	3.712	64298	26	6.826	10.409
64025	10	18.058	6.197	64097*	64	2.488	17.728	64169	42	16.148	23.816	64227	34	20.000	3.322	64299	35	15.551	10.409
64026	14	20.608	6.152	64098	32	2.785	17.720	64170*	84	16.395	23.155	64228	17	20.706	3.916	64300	22	20.131	10.664
64027	8	24.378	6.729	64099	24	3.674	17.483	64171	11	16.438	23.204	64229	16	21.069	3.420	64301	30	0.035	11.905
64028	32	20.899	7.639	64100	12	3.972	17.682	64172	13	19.737	23.550	64230	14	22.095	3.272	64302	12	3.868	11.705
64029	27	21.959	7.205	64101	30	5.552	17.519	64173	9	19.744	23.417	64231	12	23.754	3.894	64303	27	4.014	11.893
64030	9	22.007	7.950	64102	20	6.828	17.200	64174	20	0.072	24.747	64232	16	25.685	3.335	64304	18	11.366	11.222
64031	19	24.926	7.888	64103	8	7.648	17.336	64175	17	1.047	24.442	64233	31	6.588	4.900	64305	16	11.710	11.541
64032	25	25.400	7.590	64104	21	17.366	17.386	64176	33	2.530	24.207	64234	22	9.812	4.096	64306	12	14.877	11.035
64033	10	0.528	8.998	64105	27	23.549	17.707	64177*	62	9.983	24.524	64235	23	9.948	4.893	64307*	42	19.164	11.217
64034	30	18.072	8.982	64106	9	24.446	17.217	64178	10	17.106	24.717	64236	32	12.191	4.591	64308	10	11.771	12.608
64035	18	21.818	8.268	64107	26	24.520	17.461	64179	20	20.384	24.056	64237	30	12.250	4.165	64309	20	18.354	12.850
64036	8	23.277	8.760	64108	20	0.100	18.506	64180*	44	20.526	24.331	64238	12	16.746	4.975	64310	17	3.270	13.082
64037	14	24.466	8.518	64109	16	0.662	18.886	64181	10	0.618	25.333	64239	11	17.076	4.710	64311	28	4.435	13.695
64038	15	7.642	9.334	64110	9	1.153	18.416	64182	21	8.836	25.848	64240*	52	20.407	4.686	64312	13	4.723	13.028
64039	9	20.538	9.300	64111	32	3.311	18.908	64183	24	10.387	25.562	64241	17	21.412	4.798	64313	12	9.034	13.492
64040	23	24.466	9.142	64112*	62	11.355	18.067	64184	9	11.602	25.847	64242*	40	22.254	4.366	64314	25	15.298	13.186
64041	28	2.534	10.332	64113	27	11.994	18.341	64185	19	17.436	25.600	64243	18	9.044	5.147	64315	10	16.729	13.539
64042	29	3.205	10.512	64114	9	12.422	18.708	64186	10	21.264	25.458	64244	24	10.438	5.616	64316	12	22.496	13.894
64043	31	3.550	10.400	64115	35	15.479	18.106	64187	18	23.622	25.894	64245	12	11.177	5.034	64317	12	25.520	13.522
64044	10	21.214	10.176	64116	21	17.340	18.220					64246	22	11.452	5.769	64318	14	1.588	14.471
64045	11	3.684	11.191	64117	32	20.332	18.994					64247	24	11.738	5.564	64319	20	4.874	14.811
64046	8	8.026	11.810	64118	29	23.660	18.032					64248	22	13.528	5.734	64320	20	8.354	14.302
64047	13	15.716	11.954	64119	20	23.732	18.813					64249	20	18.808	5.884	64321	11	8.612	14.327
64048	9	19.730	11.624	64120	9	23.761	18.811					64250	15	20.326	5.314	64322	16	9.576	14.944
64049	31	22.104	11.755	64121	17	24.982	18.579					64251	15	22.625	5.370	64323	19	11.068	14.444
64050	11	22.301	11.136	64122	37	25.377	18.710					64252	19	24.560	5.503	64324*	50	11.680	14.210
64051	14	25.937	11.602	64123	10	1.346	19.457					64253	27	24.872	5.170	64325	12	12.912	14.508
64052	22	1.526	12.840	64124	8	2.082	19.038					64254	10	4.170	6.272	64326	12	19.531	14.741
64053	13	4.747	12.922	64125	23	2.237	19.913					64255	22	10.910	6.286	64327*	45	1.298	15.358
64054	11	4.832	12.890	64126	8	2.610	19.743					64256	24	11.484	6.152	64328	24	3.730	15.333
64055	12	5.046	12.354	64127	10	4.954	19.508					64257	13	11.674	6.264	64329	36	3.774	15.398
64056	22	18.676	12.998	64128	30	7.576	19.948					64258	14	12.463	6.144	64330*	160	7.790	15.554
64057	16	19.902	12.821	64129	8	12.782	19.748					64259	18	12.852	6.436	64331	20	7.790	15.500
64058	20	20.634	12.908	64130	11	13.505	19.938					64260	12	13.489	6.480	64332	11	13.836	15.672
64059	16	25.323	12.967	64131*	43	14.349	19.314					64261	40	18.836	6.654	64333	17	16.675	15.616
64060	37	0.094	13.158	64132	11	16.064	19.808					64262	24	24.275	6.984	64334	24	25.871	15.676
64061	26	0.364	13.146	64133	28	19.372	19.118					64263	27	25.548	6.948	64335	28	25.994	15.400
64062	22	0.458	13.693	64134	32	20.680	19.564					64264	24	3.281	7.704	64336*	60	0.112	16.808
64063	18	0.752	13.208	64135	31	23.630	19.752					64265*	35	4.268	7.975	64337	28	1.714	16.590
64064	9	1.248	13.014	64136	14	25.745	19.752					64266	17	4.741	7.332	64338	25	2.730	16.030
64065	18	1.502	13.147	64137	9	2.541	20.380					64267*	38	8.374	7.486	64339	22	4.086	16.277
64066	25	1.668	13.380	64138	12	4.344	20.520					64268*	50	8.575	7.120	64340	10	4.916	16.162
64067	9	5.036	13.226	64139	25	6.007	20.490					64269	18	9.336	7.712	64341*	40	7.001	16.304
64068*	40	5.255	13.328	64140	29	11.002	20.922					64270	14	13.400	7.064	64342	26	1.552	17.841
64069	32	8.419	13.296	64141	14	18.324	20.166					64271	28	13.515	7.366	64343	26	2.520	17.582
64070	17	1.485	14.077	64142	21	23.428	20.206					6							



64351	18	2.995	18.696	64421	12	12.189	1.926	64493	14	25.177	5.180	64565	12	0.715	14.257
64352	33	3.390	18.823	64422	14	13.785	1.270	64494	11	3.714	6.630	64566	10	0.832	14.940
64353	26	5.157	18.325	64423	11	17.094	1.502	64495	15	7.454	6.196	64567*	74	15.906	14.502
64354	37	8.724	18.968	64424*	38	17.505	1.345	64496	19	9.691	6.717	64568	11	3.380	15.796
64355	20	24.780	18.132	64425	13	17.550	1.310	64497	23	9.869	6.032	64569	29	4.216	15.751
64356	30	1.658	19.884	64426	12	17.828	1.908	64498	12	10.240	6.040	64570	12	14.532	15.869
64357	13	3.774	19.858	64427	25	19.314	1.970	64499	11	13.908	6.072	64571	36	16.576	15.718
64358	26	5.770	19.747	64428	33	0.146	2.998	64500	40	17.528	6.288	64572	22	4.096	16.028
64359	10	12.620	19.716	64429	10	1.331	2.951	64501*	82	17.636	6.890	64573	13	18.258	16.685
64360	20	1.460	20.341	64430	14	3.036	2.976	64502	14	20.053	6.506	64574	12	8.923	17.126
64361*	47	16.997	20.342	64431	20	5.645	2.706	64503	17	20.430	6.190	64575	15	10.422	17.381
64362	10	21.338	20.250	64432	10	6.844	2.943	64504	20	21.355	6.092	64576	30	2.115	18.305
64363	18	0.200	21.206	64433	20	7.890	2.146	64505	25	22.054	6.656	64577	18	3.010	18.488
64364	26	0.500	21.483	64434	13	7.947	2.641	64506	12	22.476	6.022	64578*	40	10.270	18.320
64365	30	0.674	21.736	64435	22	9.916	2.558	64507	14	24.438	6.828	64579	13	11.027	18.346
64366	15	3.941	21.742	64436	12	10.073	2.840	64508	12	2.346	7.754	64580*	32	16.104	18.582
64367	26	11.756	21.390	64437	14	10.343	2.578	64509	22	2.470	7.340	64581	25	23.472	18.718
64368	37	2.458	22.670	64438	17	14.667	2.944	64510	28	3.741	7.298	64582	14	6.115	19.528
64369	12	4.777	22.218	64439	12	14.694	2.954	64511	16	5.239	7.896	64583	12	12.422	19.122
64370	12	6.150	22.964	64440	19	16.149	2.686	64512	31	11.998	7.330	64584	40	15.770	19.553
64371	13	14.921	22.545	64441	12	18.760	2.504	64513	11	13.156	7.106	64585	10	13.712	20.293
64372*	51	22.879	22.487	64442	24	20.816	2.006	64514	20	15.330	7.970	64586	19	25.941	20.780
64373	15	5.865	23.670	64443	11	24.311	2.334	64515	12	16.322	7.510	64587	10	3.708	21.863
64374	16	6.770	23.022	64444	20	25.298	2.008	64516	17	18.142	7.190	64588*	30	8.600	21.224
64375	25	14.229	23.674	64445	16	0.278	3.634	64517	14	18.780	7.844	64589	15	12.005	21.036
64376	19	21.375	23.055	64446	12	3.408	3.560	64518	30	18.931	7.674	64590	14	19.675	21.642
64377	11	9.624	25.622	64447	22	3.872	3.684	64519	15	20.777	7.848	64591*	51	1.121	22.850
64378	22	21.646	25.334	64448*	32	9.050	3.340	64520	23	22.155	7.461	64592*	50	4.851	22.710
				64449*	80	9.225	3.442	64521	17	1.280	8.200	64593*	35	7.212	22.116
				64450	20	10.088	3.490	64522	14	3.202	8.732	64594	25	9.300	22.392
				64451	13	12.660	3.524	64523	14	3.440	8.784	64595	14	21.804	22.856
				64452	14	13.673	3.895	64524	10	4.864	8.370	64596	24	23.350	22.740
				64453	14	14.608	3.050	64525	11	6.110	8.410	64597	24	23.513	22.750
				64454	16	14.994	3.026	64526	14	6.769	8.960	64598	19	25.950	22.032
				64455	22	20.129	3.081	64527	36	18.398	8.541	64599	21	9.758	23.874
				64456	12	21.986	3.730	64528	16	18.846	8.346	64600	16	17.296	23.646
				64457	14	23.382	3.800	64529	18	20.104	8.217	64601	10	23.815	23.960
				64458	20	24.455	3.650	64530	12	22.610	8.772	64602	29	24.100	23.182
				64459*	37	0.438	4.726	64531	19	23.432	8.149	64603	21	24.870	23.308
				64460	14	1.940	4.252	64532	22	24.090	8.745	64604	15	25.368	23.180
				64461	14	2.722	4.218	64533	10	1.116	9.572	64605	10	2.252	24.780
				64462	24	5.672	4.293	64534	31	1.756	9.250	64606	35	8.790	24.100
				64463	20	8.022	4.130	64535	10	3.742	9.196	64607	13	14.914	24.725
				64464	12	8.496	4.860	64536	17	4.850	9.962	64608	42	15.639	24.918
				64465	10	9.448	4.197	64537	14	5.818	9.760	64609	12	16.409	24.790
				64466	12	9.594	4.710	64538	10	7.650	9.153	64610	28	18.055	24.670
				64467	20	11.852	4.068	64539	12	14.854	9.913	64611	12	23.250	24.122
				64468	29	13.964	4.264	64540	10	18.209	9.588	64612	11	25.117	24.216
				64469	12	14.790	4.836	64541	14	18.214	9.810	64613	36	6.802	25.726
				64470	15	14.834	4.756	64542	20	21.297	9.256	64614	17	11.984	25.022
				64471	20	15.578	4.355	64543	11	24.730	9.854	64615	11	14.724	25.320
				64472	22	17.303	4.995	64544	21	8.936	10.695	64616	12	16.512	25.492
				64473	11	20.627	4.572	64545	13	10.460	10.206	64617	24	16.984	25.660
				64474	24	20.632	4.550	64546	11	10.472	10.862	64618	31	18.800	25.738
				64475	19	20.636	4.106	64547	10	18.317	10.901	64619	10	23.640	25.709
				64476	28	20.715	4.190	64548	10	3.502	11.760	64620	12	24.195	25.074
				64477	17	23.216	4.565	64549	10	3.687	11.156	64621	20	25.178	25.100
				64478	35	23.474	4.508	64550	12	3.775	11.455				
				64479	13	0.816	5.728	64551	13	13.330	11.225				
				64480	18	2.750	5.859	64552	18	13.880	11.934				
				64481	23	3.064	5.524	64553	13	14.116	11.358				
				64482	21	4.256	5.028	64554	12	15.652	11.821				
				64483	17	4.855	5.351	64555	26	18.208	11.060				
				64484	11	5.306	5.382	64556	14	19.446	11.754				
				64485	17	8.326	5.057	64557	14	21.367	11.498				
				64486	14	10.980	5.671	64558	11	6.616	12.045				
				64487	12	11.615	5.309	64559	38	12.526	12.924				
				64488	16	12.132	5.775	64560	14	3.740	13.875				
				64489	12	12.138	5.129	64561	17	5.797	13.011				
				64490	16	21.068	5.164	64562	22	8.220	13.274				
				64491	22	23.412	5.950	64563	15	16.345	13.218				
				64492	12	24.575	5.371	64564	11	18.980	13.814				

R.A. 16<sup>h</sup> 44<sup>m</sup>

Plate 1689; 1920 July 19.

Provisional Constants

A B C  
 -0.1729 +0.00924 -1.278

D E F  
 -0.00967 -0.1751 +0.0099

Mag. = 16.5 - 1.05√d

No	d	x	y
64651*	64	4.496	0.008
64652	39	6.529	0.502
64653	26	14.608	0.803
64654	37	15.174	0.228
64655	18	16.776	0.434
64656	13	20.460	0.036
64657*	52	21.084	0.992
64658	18	5.130	1.556
64659	22	9.686	1.895
64660	20	10.722	1.836
64661	38	11.828	1.172
64662	34	14.244	1.482
64663	26	18.562	1.594
64664	24	18.628	1.490
64665	12	21.964	1.140
64666	22	2.944	2.066
64667	20	6.200	2.700
64668	16	6.394	2.434
64669	23	10.823	2.071
64670	19	11.714	2.685
64671	12	12.877	2.192
64672	17	2.126	3.726
64673	23	9.422	3.874
64674	32	15.574	3.186
64675	12	16.101	3.148
64676*	113	22.415	3.732
64677	30	22.875	3.264
64678	33	24.645	3.806
64679	17	0.905	4.665
64680	34	1.160	4.602
64681	11	3.766	4.761
64682*	42	10.250	4.190
64683	44	7.502	5.915
64684	24	18.355	5.704
64685	27	20.642	5.244
64686	30	24.134	5.905
64687	20	1.130	6.044
64688	28	5.910	6.188
64689	38	7.687	6.096
64690	37	12.591	6.375
64691	27	13.586	6.453
64692*	59	16.064	6.208
64693	37	10.403	7.785
64694	26	19.108	7.326
64695	26	23.206	7.145
64696	18	1.190	8.244
64697	21	1.860	8.828
64698	16	12.424	8.616
64699	28	18.486	8.198
64700	29	19.249	8.368
64701	12	23.706	8.394
64702	12	23.829	8.540
64703*	63	8.016	9.976
64704	18	8.438	9.346
64705	23	10.176	9.075



64706	12	13.724	9.705	64778	23	19.700	21.530	64855	26	22.004	1.212	64927	17	24.255	18.976	65005	13	10.312	0.797
64707	12	14.374	9.484	64779	17	20.640	21.586	64856	29	21.326	2.970	64928	33	6.066	19.200	65006	12	10.410	0.720
64708*	58	18.304	9.396	64780	18	24.496	21.497	64857*	105	0.245	3.990	64929	24	6.254	19.204	65007	10	16.545	0.161
64709	22	23.367	9.846	64781	78	25.634	21.034	64858	19	0.708	3.512	64930	36	9.811	19.984	65008	22	18.677	0.280
64710	11	17.440	10.122	64782	19	1.386	22.836	64859	14	15.365	3.725	64931*	64	12.082	19.974	65009	22	21.972	0.250
64711	14	19.674	10.703	64783	24	1.548	22.845	64860	9	24.564	3.345	64932*	22	14.978	19.909	65010	10	4.941	1.822
64712	30	20.429	10.380	64784	15	3.974	22.076	64861	24	2.485	4.034	64933	15	19.590	19.220	65011	10	6.172	1.108
64713	24	21.246	10.137	64785	11	7.054	22.568	64862	17	7.970	4.170	64934	14	22.460	19.706	65012	10	10.354	1.550
64714	14	24.126	10.720	64786	17	7.693	22.143	64863	18	21.040	4.224	64935*	43	9.495	20.238	65013	23	10.727	1.934
64715	19	24.534	10.321	64787	31	23.944	22.731	64864*	89	21.868	4.210	64936	28	17.150	20.550	65014*	43	10.755	1.296
64716	30	25.566	10.564	64788	62	25.696	22.964	64865*	44	23.960	4.351	64937	11	20.981	20.500	65015	13	12.015	1.646
64717	23	25.566	10.545	64789	32	2.144	23.265	64866	13	4.622	5.252	64938	13	22.644	20.600	65016	16	12.112	1.738
64718	21	19.900	11.716	64790	19	2.916	23.374	64867	14	6.766	5.347	64939	33	0.672	21.114	65017	14	14.744	1.901
64719	22	24.179	11.536	64791	16	3.413	23.235	64868*	60	20.006	5.916	64940*	83	3.708	21.241	65018	10	15.819	1.961
64720	25	25.018	11.248	64792	18	5.742	23.631	64869	28	22.547	5.056	64941	11	7.952	21.430	65019	13	15.832	1.940
64721	39	8.362	12.556	64793	38	7.566	23.258	64870	24	24.010	5.124	64942	26	22.846	21.760	65020	28	16.882	1.830
64722	26	14.288	12.494	64794	16	8.176	23.055	64871	19	2.002	6.136	64943	26	22.902	21.480	65021	10	19.759	1.576
64723	39	23.494	12.100	64795	31	8.300	23.818	64872	29	4.065	6.496	64944	21	2.050	22.959	65022*	62	19.814	1.620
64724	26	20.335	13.329	64796	12	13.754	23.236	64873	12	7.640	6.274	64945*	34	5.011	22.294	65023	16	21.001	1.630
64725	23	21.450	13.925	64797	14	15.836	23.126	64874	29	12.190	6.425	64946	26	7.798	22.352	65024	10	3.677	2.474
64726	32	18.054	14.820	64798	17	16.444	23.381	64875	23	20.626	6.032	64947	19	11.505	22.618	65025	23	4.609	2.484
64727*	58	18.268	14.516	64799	23	17.536	23.014	64876*	63	24.036	6.094	64948	10	16.400	22.014	65026	12	6.300	2.406
64728	18	18.626	14.296	64800	14	19.250	23.238	64877	16	5.544	7.326	64949	17	17.169	22.336	65027	26	6.733	2.647
64729	17	20.784	14.274	64801	36	21.340	23.432	64878	9	16.235	7.631	64950	28	25.066	22.686	65028	18	11.012	2.954
64730	36	20.795	14.124	64802	22	23.098	23.087	64879	12	16.759	7.446	64951*	60	3.800	23.167	65029	14	11.465	2.432
64731	14	21.090	14.804	64803	11	23.356	23.132	64880*	57	4.256	8.437	64952	37	8.290	23.177	65030	26	13.195	2.111
64732*	38	24.443	14.018	64804	12	4.326	24.846	64881	17	12.750	8.453	64953	25	22.350	23.264	65031	10	18.393	2.584
64733	22	25.894	14.894	64805	31	5.998	24.124	64882*	58	14.180	8.315	64954	28	23.370	23.080	65032	10	22.029	2.204
64734*	44	8.086	15.504	64806*	54	6.088	24.461	64883	15	22.264	8.156	64955	13	23.966	23.390	65033	21	25.138	2.630
64735*	44	10.191	15.066	64807	22	6.356	24.966	64884	10	24.328	8.263	64956	10	25.066	23.136	65034	15	2.342	3.323
64736	21	13.100	15.808	64808*	36	7.444	24.314	64885	31	4.700	9.711	64957	15	0.310	24.405	65035*	41	6.646	3.630
64737	34	14.184	15.689	64809	23	7.745	24.812	64886	27	6.854	9.016	64958	10	1.220	24.746	65036	12	7.336	3.279
64738	20	18.466	15.115	64810	17	8.274	24.600	64887*	32	23.385	9.316	64959	24	9.081	24.230	65037	11	8.338	3.610
64739	16	18.655	15.066	64811*	44	15.340	24.826	64888	15	3.500	10.775	64960	26	11.507	24.850	65038	18	9.870	3.039
64740	24	23.475	15.156	64812*	37	16.080	24.090	64889	11	4.820	10.136	64961	15	11.519	24.858	65039	12	10.395	3.492
64741	39	7.894	16.756	64813	30	19.456	24.196	64890	9	6.910	10.493	64962	28	13.032	24.344	65040	15	10.706	3.013
64742	15	12.846	16.014	64814	28	22.184	24.148	64891	10	18.538	10.010	64963	13	14.321	24.262	65041	22	13.604	3.182
64743	26	13.158	16.395	64815	21	23.091	24.505	64892	28	21.796	10.202	64964	29	14.382	24.018	65042	12	14.670	3.950
64744	24	18.004	16.066	64816	11	2.274	25.154	64893*	35	22.594	10.160	64965	22	16.302	24.618	65043	14	14.860	3.098
64745	26	18.376	16.313	64817	24	3.260	25.164	64894	9	2.130	11.768	64966	21	17.002	24.216	65044	24	18.535	3.606
64746	12	19.530	16.055	64818	21	5.106	25.957	64895	17	2.964	11.470	64967*	34	18.405	24.382	65045	19	20.378	3.776
64747	37	22.764	16.400	64819	16	6.364	25.646	64896*	34	4.625	11.826	64968*	27	19.345	24.193	65046*	35	23.115	3.560
64748	26	24.903	16.125	64820	26	7.826	25.256	64897	20	12.957	11.710	64969	11	20.444	24.150	65047	14	23.448	3.812
64749	11	9.736	17.694	64821	23	8.581	25.499	64898*	28	22.308	11.182	64970	17	12.290	25.896	65048	12	1.116	4.400
64750	38	18.306	17.027	64822	23	10.660	25.715	64899	27	1.452	12.340	64971	26	12.730	25.840	65049*	37	1.750	4.339
64751	29	19.388	17.004	64823	16	19.400	25.294	64900*	27	18.356	12.050	64972	13	18.742	25.108	65050*	34	4.011	4.240
64752	18	21.206	17.877	64824	14	21.959	25.016	64901*	40	12.652	13.320	64973	15	21.236	25.648	65051	16	6.277	4.384
64753	21	21.806	17.005					64902	28	21.516	13.124					65052*	68	7.147	4.628
64754	28	1.432	18.810					64903	18	22.682	13.620					65053*	122	9.342	4.864
64755	16	16.122	18.952					64904*	39	25.282	13.342					65054	32	15.570	4.100
64756*	55	17.075	18.336					64905*	30	2.427	14.247					65055	24	18.415	4.006
64757*	34	21.849	18.592					64906	31	23.858	14.342					65056	33	21.438	4.600
64758	15	22.190	18.407					64907	12	8.190	15.191					65057	32	22.166	4.472
64759	18	5.036	19.656					64908*	31	12.810	15.396					65058	21	22.344	4.348
64760*	44	5.794	19.774					64909	30	23.494	15.376					65059	12	22.987	4.228
64761	24	14.176	19.174					64910	26	0.780	16.648					65060	12	24.018	4.210
64762	21	18.680	19.802					64911*	28	16.416	16.734					65061	31	0.344	5.056
64763	13	19.155	19.416					64912*	27	17.414	16.190					65062	23	1.808	5.110
64764	26	20.224	19.606					64913	9	18.776	16.576					65063	10	3.628	5.580
64765	34	20.344	19.244					64914*	80	19.752	16.272					65064	10	3.926	5.684
64766	25	3.938	20.826					64915	23	5.860	17.270					65065	11	11.200	5.760
64767*	58	11.796	20.655					64916*	126	6.160	17.572					65066	16	14.698	5.484
64768	16	16.086	20.280					64917	29	7.206	17.455					65067	10	18.005	5.649
64769	23	16.520	20.184					64918	30	8.020	17.374					65068	20	21.320	5.135
64770	32	17.651	20.168					64919	29	8.767	17.384					65069*	50	1.841	6.081
64771	38	22.594	20.865					64920*	37	17.940	17.448					65070	10	4.504	6.612
64772	14	24.264	20.946					64921	29	20.408	17.074				</				



65077	32	11.477	7.790	65149	12	17.958	17.890	<div>R.A. 17<sup>h</sup> 8<sup>m</sup></div> <div>Plate 1985 ; 1922 June 23.</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>- 01722 + 01491 + 0002</div> <div>D            E            F</div> <div>- 01506 - 01750 + 0121</div> <div>Mag. = 17.2 - 1.05√d</div>	65306	29	6.149	2.188	65378	23	9.290	4.862
65078	33	14.360	7.432	65150	16	22.603	17.151		65307	27	6.390	2.500	65379	14	10.404	4.482
65079	15	14.581	7.900	65151*	35	24.606	17.756		65308	13	6.409	2.826	65380	31	12.974	4.800
65080*	49	23.690	7.098	65152	22	0.866	18.269		65309	22	6.735	2.923	65381	16	14.716	4.179
65081	23	0.098	8.160	65153	24	1.985	18.729		65310	19	8.384	2.024	65382	10	14.950	4.370
65082	11	2.159	8.245	65154	20	2.207	18.958		65311	16	10.064	2.952	65383	27	17.460	4.952
65083	14	4.874	8.852	65155	19	5.283	18.060		65312	43	10.430	2.646	65384	16	18.096	4.832
65084	16	7.038	8.102	65156	14	19.879	18.004		65313	10	10.904	2.750	65385	14	19.828	4.427
65085	25	8.014	8.740	65157	13	24.521	18.550		65314	12	13.370	2.987	65386	11	23.086	4.678
65086*	36	10.114	8.769	65158	17	25.409	18.184		65315	18	14.611	2.010	65387*	57	23.804	4.860
65087	13	16.602	8.289	65159	24	0.420	19.709	65316	18	14.772	2.698	65388	11	1.082	5.914	
65088	29	21.518	8.028	65160	14	4.648	19.642	65317	10	15.546	2.090	65389	10	2.235	5.664	
65089*	44	22.348	8.190	65161*	33	9.198	19.980	65318	10	16.416	2.230	65390	10	3.532	5.090	
65090	40	24.082	8.326	65162	32	11.482	19.106	65319*	57	16.610	2.616	65391	17	3.617	5.798	
65091*	35	1.230	9.309	65163	23	14.505	19.923	65320*	60	16.660	2.870	65392	10	4.456	5.316	
65092	10	2.321	9.180	65164	15	16.636	19.812	65321	21	19.066	2.444	65393	13	5.332	5.429	
65093	17	6.390	9.234	65165	22	16.840	19.273	65322	24	19.910	2.926	65394	11	6.124	5.001	
65094	33	7.121	9.512	65166	15	21.205	19.486	65323	33	20.250	2.925	65395	23	6.750	5.142	
65095	13	19.190	9.153	65167	19	0.615	20.600	65324	12	20.391	2.540	65396	11	8.721	5.194	
65096	21	19.808	9.732	65168	21	15.351	20.893	65325	24	20.995	2.420	65397	26	9.966	5.560	
65097	13	20.169	9.261	65169	12	19.519	20.236	65326	10	21.055	2.250	65398	15	11.438	5.398	
65098	9	23.813	9.169	65170*	34	23.282	20.220	65327	10	21.878	2.478	65399	12	12.802	5.456	
65099*	34	0.449	10.160	65171	17	23.596	20.380	65328	30	21.970	2.484	65400	19	13.958	5.834	
65100	25	8.911	10.335	65172	26	0.826	21.759	65329	18	22.960	2.527	65401	11	14.465	5.030	
65101	32	11.674	10.936	65173	24	0.880	21.478	65330	18	23.702	2.694	65402	10	16.900	5.258	
65102	12	12.256	10.671	65174	9	5.744	21.200	65331	33	23.960	2.800	65403	33	18.670	5.559	
65103	26	16.122	10.196	65175	15	6.169	21.804	65332	25	24.727	2.612	65404	31	22.280	5.294	
65104	17	21.470	10.856	65176	17	7.876	21.300	65333	29	25.879	2.998	65405	25	23.886	5.090	
65105*	29	0.174	11.188	65177	19	8.450	21.089	65334*	49	1.256	3.985	65406	10	0.040	6.205	
65106	16	1.585	11.392	65178	20	12.798	21.610	65335	34	3.261	3.016	65407	12	2.366	6.920	
65107	10	7.710	11.765	65179	14	13.149	21.130	65336	12	3.404	3.998	65408	10	3.220	6.276	
65108*	61	7.990	11.334	65180	12	13.837	21.680	65337	21	4.040	3.441	65409	13	3.360	6.246	
65109	12	15.139	11.170	65181	12	15.120	21.752	65338	13	5.599	3.850	65410	27	4.257	6.737	
65110	22	16.246	11.410	65182	29	3.056	22.658	65339	19	5.611	3.998	65411	20	5.298	6.600	
65111	10	17.415	11.800	65183	24	6.624	22.384	65340	20	6.176	3.118	65412	17	5.900	6.692	
65112	21	22.076	11.999	65184*	32	10.441	22.710	65341	10	6.910	3.530	65413	35	8.070	6.775	
65113	31	4.169	12.670	65185	12	15.242	22.728	65342	24	8.402	3.640	65414	29	9.072	6.160	
65114	13	10.388	12.748	65186	22	24.814	22.330	65343	16	8.656	3.543	65415	10	9.800	6.266	
65115	18	10.556	12.690	65187	44	25.701	22.734	65344	16	9.446	3.966	65416*	61	11.180	6.344	
65116	14	23.892	12.230	65188	25	0.345	23.268	65345	13	9.532	3.172	65417	15	14.002	6.728	
65117	23	0.576	13.620	65189	31	1.364	23.074	65346	30	10.142	3.948	65418	28	15.619	6.197	
65118	10	1.560	13.194	65190	18	1.965	23.377	65347	10	11.096	3.922	65419	10	15.806	6.622	
65119*	37	3.170	13.313	65191	13	3.061	23.108	65348	23	13.881	3.460	65420	10	16.994	6.502	
65120	10	6.120	13.364	65192*	86	11.410	23.480	65349	27	14.702	3.758	65421	10	18.633	6.485	
65121*	46	13.430	13.960	65193	17	15.570	23.744	65350	45	14.773	3.471	65422	21	19.612	6.086	
65122	16	22.797	13.091	65194	13	21.336	23.527	65351	29	17.696	3.044	65423	22	20.040	6.540	
65123	22	23.984	13.170	65195	21	21.990	23.372	65352	11	18.860	3.226	65424	40	20.950	6.505	
65124	33	1.760	14.330	65196	26	23.966	23.718	65353	12	18.940	3.022	65425	32	21.900	6.735	
65125	14	11.780	14.364	65197	10	15.957	24.915	65354	20	19.738	3.994	65426	10	22.560	6.948	
65126*	80	11.976	14.138	65198	18	17.394	24.084	65355	10	20.030	3.364	65427	35	23.634	6.002	
65127*	37	13.250	14.551	65199	15	19.830	24.300	65356	29	22.230	3.994	65428	23	23.852	6.208	
65128	25	18.580	14.603	65200	17	22.839	24.870	65357	11	22.396	3.349	65429	10	24.226	6.014	
65129	33	19.555	14.824	65201	10	11.239	25.508	65358	27	23.189	3.208	65430	13	24.625	6.975	
65130	30	1.406	15.368	65202	14	15.090	25.584	65359	17	23.658	3.110	65431*	72	1.892	7.510	
65131*	38	6.214	15.412	65203	26	19.464	25.845	65360	30	24.472	3.578	65432	17	3.558	7.196	
65132*	40	6.472	15.708					65361	32	25.491	3.999	65433*	96	4.974	7.144	
65133	10	7.424	15.570					65362	11	25.568	3.780	65434	14	5.846	7.414	
65134	10	11.640	15.932					65363	44	0.326	4.911	65435	10	8.620	7.410	
65135	15	14.771	15.177					65364	32	0.500	4.784	65436	37	8.721	7.584	
65136	10	18.842	15.890					65365	28	1.140	4.652	65437	32	9.332	7.113	
65137	21	24.385	15.656					65366	12	1.188	4.926	65438	27	9.398	7.	



65450	28	25.028	7.234	65522	10	24.088	11.148	65594	17	2.588	17.808	65666	16	23.996	20.327	65738*	46	6.388	25.001
65451	10	25.210	7.113	65523	45	24.710	11.292	65595	10	5.135	17.508	65667	28	1.470	21.340	65739	14	10.465	25.374
65452	13	25.320	7.071	65524	11	25.396	11.312	65596	10	5.335	17.718	65668	13	1.746	21.719	65740	26	12.810	25.550
65453*	75	0.570	8.625	65525	14	25.482	11.748	65597	21	9.826	17.016	65669	14	4.352	21.996	65741	16	13.770	25.053
65454	13	1.459	8.970	65526	30	0.373	12.438	65598*	41	10.299	17.404	65670*	65	6.072	21.824	65742	15	14.410	25.916
65455	13	1.932	8.015	65527	10	1.972	12.739	65599	25	11.310	17.903	65671	11	6.227	21.963	65743	30	16.515	25.458
65456	62	2.309	8.730	65528	27	2.192	12.636	65600	10	13.033	17.376	65672	10	6.308	21.822	65744	27	17.558	25.138
65457	11	2.585	8.655	65529	14	3.842	12.873	65601	28	14.104	17.575	65673	10	6.764	21.228	65745	29	23.880	25.380
65458	16	8.197	8.125	65530	27	8.214	12.874	65602	14	15.920	17.871	65674	39	7.404	21.610	65746	11	24.800	25.045
65459	32	8.388	8.558	65531	51	8.886	12.900	65603	15	22.217	17.840	65675	11	16.494	21.874	65747	37	25.022	25.995
65460	29	8.720	8.216	65532	24	13.220	12.358	65604	37	22.558	17.756	65676	10	16.838	21.914				
65461	12	13.662	8.196	65533	13	15.190	12.158	65605	17	24.040	17.468	65677	10	17.510	21.600				
65462	10	16.416	8.178	65534	60	15.590	12.370	65606	22	25.282	17.293	65678	10	18.304	21.892				
65463	12	16.602	8.542	65535	38	15.809	12.855	65607	25	2.936	18.945	65679	31	18.776	21.670				
65464	10	18.093	8.720	65536	15	15.995	12.174	65608*	53	3.002	18.150	65680*	86	19.696	21.260				
65465	43	18.187	8.548	65537	19	17.784	12.820	65609	10	3.119	18.316	65681	13	20.912	21.504				
65466	12	19.083	8.411	65538	10	19.947	12.706	65610	12	3.158	18.480	65682	10	21.247	21.275				
65467	29	19.672	8.157	65539	48	21.434	12.978	65611	29	3.814	18.563	65683	30	22.807	21.840				
65468	17	19.680	8.956	65540	28	22.382	12.460	65612	10	4.175	18.970	65684	19	23.240	21.385				
65469	31	20.562	8.890	65541	24	25.196	12.171	65613	26	6.070	18.124	65685	23	24.468	21.816				
65470	15	24.052	8.157	65542	16	0.256	13.198	65614	10	6.362	18.700	65686	32	3.294	22.720				
65471*	64	25.526	8.891	65543	14	0.376	13.383	65615	24	7.000	18.880	65687	37	5.220	22.325				
65472	11	0.080	9.372	65544	30	1.112	13.520	65616	30	7.048	18.840	65688	10	6.222	22.412				
65473	10	0.980	9.574	65545	31	2.300	13.576	65617	10	9.084	18.506	65689	17	7.228	22.542				
65474	22	2.059	9.576	65546	10	2.541	13.365	65618*	113	9.412	18.366	65690	10	8.164	22.532				
65475*	74	5.052	9.150	65547*	40	5.512	13.798	65619	31	12.050	18.468	65691	14	8.253	22.970				
65476	14	5.300	9.200	65548	18	7.700	13.624	65620	10	18.734	18.965	65692	23	9.826	22.120				
65477	25	6.386	9.191	65549*	52	11.439	13.183	65621	26	18.842	18.943	65693	17	10.188	22.638				
65478	10	7.450	9.550	65550	12	13.860	13.381	65622	21	22.790	18.968	65694	11	10.579	22.875				
65479	10	8.609	9.980	65551	28	13.956	13.847	65623	10	24.048	18.802	65695	29	15.130	22.916				
65480	28	11.616	9.087	65552	12	22.508	13.538	65624	10	24.507	18.064	65696*	54	16.130	22.135				
65481	10	12.258	9.260	65553	12	24.722	13.048	65625	58	25.838	18.140	65697	13	17.259	22.648				
65482	16	16.488	9.918	65554	14	3.714	14.746	65626	13	0.270	19.433	65698*	49	18.406	22.340				
65483	16	18.483	9.736	65555	10	4.460	14.862	65627	11	1.394	19.006	65699	31	19.034	22.176				
65484	12	23.732	9.861	65556	28	6.648	14.730	65628	19	1.652	19.866	65700	13	20.860	22.804				
65485	17	24.420	9.465	65557	19	6.830	14.796	65629	31	5.430	19.921	65701	26	21.314	22.016				
65486	18	25.068	9.540	65558	32	11.228	14.718	65630	12	8.613	19.496	65702	10	22.584	22.840				
65487	14	2.109	10.701	65559	28	12.082	14.172	65631	25	10.349	19.320	65703	12	22.813	22.940				
65488	10	4.110	10.104	65560	22	14.560	14.470	65632	10	10.514	19.152	65704	10	23.220	22.108				
65489	12	5.100	10.270	65561	10	14.778	14.061	65633	11	11.090	19.026	65705	11	23.956	22.750				
65490	21	9.804	10.169	65562	10	16.113	14.927	65634	24	18.702	19.056	65706	22	24.046	22.500				
65491	35	10.892	10.746	65563	11	16.150	14.335	65635	10	20.448	19.534	65707	29	0.491	23.816				
65492	29	11.098	10.916	65564	11	19.566	14.660	65636	26	20.602	19.628	65708*	64	4.186	23.106				
65493	27	11.134	10.937	65565	18	0.640	15.874	65637	14	20.834	19.562	65709	15	6.094	23.926				
65494	10	11.418	10.185	65566	24	3.111	15.540	65638	12	20.996	19.826	65710	13	7.430	23.936				
65495	22	11.702	10.610	65567	29	3.864	15.898	65639	19	22.326	19.670	65711	27	9.022	23.004				
65496	31	12.246	10.646	65568*	60	5.700	15.650	65640	33	22.380	19.193	65712	12	14.358	23.460				
65497	29	14.620	10.600	65569	26	8.524	15.192	65641	28	22.668	19.470	65713	39	15.785	23.830				
65498*	67	15.512	10.825	65570	32	8.722	15.860	65642	21	22.850	19.727	65714*	49	15.864	23.539				
65499	25	15.918	10.136	65571	11	9.084	15.518	65643	13	24.438	19.011	65715	23	18.005	23.060				
65500	22	17.176	10.935	65572	10	9.756	15.836	65644	28	25.654	19.190	65716	18	18.006	23.960				
65501	10	21.818	10.261	65573	14	11.526	15.324	65645	31	25.842	19.826	65717	45	20.790	23.582				
65502	12	21.860	10.358	65574	14	11.861	15.305	65646*	50	1.724	20.640	65718	42	21.025	23.023				
65503*	56	22.500	10.330	65575	33	13.559	15.276	65647	15	1.916	20.956	65719	21	22.684	23.783				
65504	12	23.200	10.414	65576*	58	14.002	15.444	65648	29	2.041	20.791	65720	43	25.799	23.495				
65505	40	24.160	10.351	65577	10	15.440	15.056	65649	11	3.377	20.779	65721	13	1.616	24.524				
65506	15	1.276	11.602	65578*	83	16.130	15.554	65650	14	4.190	20.310	65722	40	2.470	24.122				
65507	10	4.490	11.300	65579	29	16.684	15.784	65651	32	5.302	20.060	65723	11	4.888	24.415				
65508	10	6.358	11.920	65580	10	17.235	15.170	65652	10	5.800	20.044	65724	25	7.384	24.920				
65509	55	8.471	11.116	65581	32	22.528	15.382	65653*	69	7.820	20.545	65725	23	11.241	24.816				
65510	30	8.965	11.418	65582	10	25.843	15.277	65654	16	15.328	20.922	65726	10	15.748	24.228				
65511	24	11.686	11.960	65583	15	0.630	16.964	65655	28	17.338	20.403	65727	10	15.788	24.810				
65512	22	11.990	11.061	65584	28	0.909	16.960	65656	25	19.107	20.660	65728	10	15.800	24.856				
65513	14	14.583	11.661	65585	33	1.890	16.974	65657	10	19.142	20.240	65729	28	17.130	24.338				
65514	31	15.872	11.742	65586	33	2.747	16.056	65658	10	19.258	20.784	65730	17	18.713	24.013				
65515	43	18.872	11.568	65587	16	3.948	16.266	65659	51	19.714	20.014	65731*	51	19.478	24.990				
65516	11	19.417	11.554	65588	19	5.451	16.291	65660	31	20.326	20.945	65732	10	19.694	24.922				
65517	21	19.818	11.777	65589	10	8.006	16.600	65661	18	21.540	20.217	65733	27	24.088	24.258				
65518	31	21.420	11.286	6															



65789	8	5.066	2.810	65861	26	18.048	4.754	65933	9	7.250	7.306	66005	20	7.426	11.844	66077	8	9.865	17.272
65790	41	5.333	2.492	65862	41	20.352	4.914	65934	25	7.476	7.398	66006	20	9.689	11.907	66078	11	10.174	17.832
65791	23	5.678	2.489	65863	28	20.768	4.108	65935	10	11.208	7.324	66007	12	12.007	11.936	66079	9	10.196	17.354
65792	20	7.604	2.338	65864	39	21.203	4.044	65936	16	11.425	7.314	66008	15	14.670	11.142	66080	23	18.447	17.910
65793	14	9.002	2.290	65865	9	22.344	4.056	65937	9	11.632	7.045	66009	26	17.362	11.321	66081	64	25.756	17.139
65794	20	9.336	2.197	65866	22	0.022	5.632	65938	8	13.132	7.253	66010	11	18.003	11.709	66082	9	0.016	18.180
65795	25	10.251	2.153	65867	8	0.824	5.012	65939	18	15.317	7.946	66011	14	19.912	11.778	66083	28	0.357	18.093
65796	8	10.606	2.632	65868	46	1.540	5.193	65940	21	16.178	7.383	66012	9	20.568	11.281	66084	46	3.638	18.461
65797	16	11.918	2.284	65869	18	1.626	5.421	65941	20	16.204	7.596	66013	11	23.364	11.132	66085	30	8.344	18.491
65798	51	11.937	2.553	65870	32	3.960	5.768	65942	24	16.836	7.722	66014	8	23.607	11.086	66086	25	9.994	18.937
65799	25	13.298	2.500	65871	57	4.242	5.602	65943	8	18.606	7.556	66015	22	0.158	12.797	66087	37	11.116	18.072
65800	10	13.369	2.808	65872	26	4.436	5.440	65944	24	18.846	7.650	66016	10	0.214	12.095	66088	32	23.022	18.985
65801	18	13.728	2.276	65873	19	4.458	5.433	65945	18	21.516	7.783	66017	17	2.970	12.496	66089	29	0.184	19.531
65802	55	14.810	2.397	65874	18	5.152	5.736	65946	24	23.304	7.479	66018	40	5.548	12.392	66090	20	0.476	19.807
65803	11	14.874	2.176	65875	19	6.486	5.563	65947	18	1.341	8.275	66019	10	5.718	12.496	66091	11	0.594	19.302
65804	52	15.500	2.272	65876	8	8.592	5.532	65948	11	1.807	8.486	66020	11	5.967	12.702	66092	10	2.243	19.337
65805	12	15.882	2.770	65877	10	9.072	5.217	65949	8	2.740	8.277	66021	24	6.336	12.194	66093	21	3.460	19.512
65806	11	16.194	2.138	65878	8	9.140	5.504	65950	18	4.104	8.754	66022	10	7.440	12.540	66094	19	10.202	19.387
65807	38	16.443	2.458	65879	22	9.273	5.898	65951	14	4.140	8.004	66023	26	7.452	12.630	66095	67	17.250	19.969
65808	10	16.540	2.657	65880	9	9.985	5.630	65952	22	4.509	8.633	66024	11	7.904	12.551	66096	42	17.774	19.100
65809	8	16.544	2.790	65881	43	10.300	5.244	65953	8	5.118	8.037	66025	13	8.462	12.338	66097	13	21.834	19.893
65810	23	17.281	2.542	65882	54	10.429	5.444	65954	19	5.674	8.812	66026	24	9.094	12.853	66098	62	22.724	19.018
65811	43	18.564	2.104	65883	20	10.631	5.312	65955	23	6.310	8.178	66027	167	10.049	12.790	66099	16	0.134	20.006
65812	9	21.884	2.396	65884	10	10.682	5.249	65956	9	7.048	8.862	66028	14	12.711	12.271	66100	12	0.658	20.063
65813	11	22.070	2.112	65885	24	11.134	5.222	65957	8	7.394	8.328	66029	24	15.114	12.124	66101	8	1.202	20.712
65814	20	23.822	2.284	65886	11	11.391	5.162	65958	24	10.923	8.627	66030	20	17.194	12.117	66102	11	1.806	20.656
65815	18	0.920	3.542	65887	25	14.855	5.650	65959	23	11.610	8.502	66031	26	18.771	12.688	66103	26	3.652	20.146
65816	11	1.390	3.440	65888	8	15.748	5.058	65960	59	13.047	8.469	66032	18	23.848	12.573	66104	12	5.883	20.044
65817	14	1.433	3.025	65889	21	16.060	5.598	65961	10	14.564	8.525	66033	11	24.206	12.982	66105	15	7.214	20.126
65818	26	1.690	3.131	65890	10	16.132	5.438	65962	24	16.879	8.566	66034	9	0.288	13.875	66106	36	10.762	20.776
65819	26	2.204	3.906	65891	21	16.660	5.448	65963	27	17.854	8.144	66035	10	2.500	13.376	66107	14	13.842	20.564
65820	24	3.610	3.318	65892	26	18.222	5.735	65964	9	18.272	8.790	66036	15	5.616	13.628	66108	10	19.830	20.650
65821	8	4.102	3.381	65893	24	20.308	5.706	65965	57	23.500	8.988	66037	18	9.958	13.892	66109	8	24.694	20.368
65822	25	4.650	3.257	65894	34	20.576	5.850	65966	26	25.106	8.707	66038	9	12.446	13.948	66110	13	1.056	21.718
65823	30	5.082	3.150	65895	10	20.930	5.874	65967	11	2.182	9.793	66039	37	13.998	13.198	66111	26	1.276	21.070
65824	14	6.403	3.874	65896	24	21.947	5.578	65968	13	2.829	9.866	66040	37	22.640	13.672	66112	35	3.966	21.960
65825	8	7.612	3.049	65897	15	22.340	5.587	65969	47	3.283	9.216	66041	26	23.546	13.150	66113	11	4.558	21.794
65826	20	7.878	3.345	65898	15	22.697	5.372	65970	10	3.876	9.298	66042	30	4.489	14.072	66114	20	10.964	21.130
65827	40	9.908	3.960	65899	25	23.271	5.294	65971	27	3.922	9.136	66043	10	6.339	14.466	66115	9	12.428	21.972
65828	23	10.286	3.164	65900	19	24.126	5.172	65972	8	8.936	9.706	66044	12	8.314	14.474	66116	9	13.942	21.284
65829	11	10.304	3.787	65901	12	24.350	5.244	65973	11	10.528	9.540	66045	20	8.936	14.477	66117	12	22.116	21.378
65830	8	10.423	3.506	65902	14	24.842	5.186	65974	29	12.650	9.820	66046	36	12.972	14.985	66118	24	0.625	22.174
65831	9	10.622	3.136	65903	27	1.378	6.333	65975	31	13.602	9.928	66047	26	13.534	14.793	66119	16	1.868	22.887
65832	21	10.940	3.042	65904	8	1.498	6.218	65976	11	14.128	9.033	66048	10	13.858	14.736	66120	17	2.286	22.143
65833	35	11.406	3.208	65905	18	1.598	6.538	65977	47	14.564	9.405	66049	24	0.316	15.720	66121	32	6.912	22.708
65834	10	13.183	3.540	65906	9	1.970	6.342	65978	10	14.978	9.512	66050	17	6.190	15.188	66122	11	7.102	22.464
65835	9	13.517	3.118	65907	9	4.440	6.352	65979	8	15.040	9.545	66051	29	7.176	15.243	66123	30	11.706	22.551
65836	22	13.999	3.012	65908	54	4.710	6.420	65980	8	15.284	9.934	66052	32	9.307	15.234	66124	12	12.022	22.002
65837	8	14.387	3.312	65909	31	5.314	6.782	65981	9	15.722	9.323	66053	13	9.344	15.336	66125	21	14.226	22.974
65838	10	17.677	3.874	65910	32	7.294	6.430	65982	10	19.397	9.196	66054	20	9.584	15.264	66126	35	17.082	22.686
65839	33	17.982	3.383	65911	19	7.615	6.384	65983	8	20.036	9.112	66055	11	9.682	15.562	66127	11	18.220	22.522
65840	24	18.171	3.940	65912	16	8.067	6.664	65984	10	20.688	9.260	66056	10	13.665	15.262	66128	9	18.331	22.563
65841	8	19.036	3.720	65913	11	10.160	6.012	65985	48	22.314	9.799	66057	11	15.798	15.514	66129	59	21.559	22.116
65842	10	20.344	3.462	65914	18	11.272	6.908	65986	12	25.954	9.090	66058	31	2.896	16.799	66130	9	23.302	22.087
65843	9	21.674	3.126	65915	60	12.484	6.438	65987	44	0.266	10.668	66059	30	4.129	16.412	66131	9	0.640	23.274
65844	9	22.608	3.370	65916	12	12.943	6.312	65988	11	0.965	10.748	66060	9	8.344	16.829	66132	35	3.622	23.814
65845	47	22.641	3.549	65917	25	14.644	6.040	65989	9	1.494	10.193	66061	48	10.175	16.123	66133	25	3.846	23.350
65846	26	3.226	4.322	65918	11	17.210	6.402	65990	32	1.924	10.682	66062	27	13.021	16.793	66134	11	4.262	23.388
65847	10	3.302	4.099	65919	11	20.627	6.916	65991	11	6.586	10.988	66063	21	13.981	16.852	66135	19	7.767	23.963
65848	42	3.998	4.008	65920	10	20.986	6.250	65992	30	10.494	10.088	66064	8	14.770	16.118	66136	9	7.796	23.213
65849	20	5.552	4.617	65921	12	21.024	6.750	65993	22	10.621	10.016	66065	14	16.985	16.112	66137	17	15.434	23.782
65850	27	7.591	4.142	65922	19	21.872	6.592	65994	20	11.482	10.706	66066	25	17.149	16.558	66138	14	15.728	23.322
65851	11	7.894	4.267	65923	13	22.086	6.722	65995	9	11.566	10.904	66067	100	20.253	16.758	66139	9	21.112	23.574
65																			



66149	24	1.716	25.710	66241	55	25.720	3.104	66313	14	9.526	10.374	66385	29	24.610	16.340	66457	26	8.238	24.379
66150	9	2.636	25.368	66242	20	1.968	4.899	66314	12	13.950	10.130	66386	13	7.246	17.624	66458	10	9.116	24.132
66151*	35	5.336	25.118	66243	16	2.192	4.970	66315*	55	16.766	10.015	66387	14	7.776	17.256	66459	10	18.826	24.546
66152	11	6.499	25.828	66244	16	2.684	4.910	66316	11	19.827	10.494	66388	24	9.477	17.944	66460	51	21.506	24.402
66153	17	6.563	25.536	66245	13	5.380	4.192	66317	11	21.386	10.253	66389*	71	15.628	17.114	66461	29	21.582	24.016
66154	19	8.590	25.067	66246	21	5.518	4.838	66318	30	21.596	10.113	66390	39	16.913	17.566	66462	10	24.626	24.588
66155	8	10.440	25.473	66247	10	6.896	4.799	66319	15	22.022	10.566	66391	23	23.472	17.358	66463	17	24.869	24.145
66156	12	18.453	25.650	66248	15	10.056	4.260	66320	21	23.668	10.309	66392*	71	0.677	18.756	66464	14	4.574	25.616
				66249	9	10.166	4.900	66321	8	23.923	10.456	66393	38	0.980	18.722	66465	14	5.332	25.330
				66250	11	16.566	4.390	66322	14	25.104	10.330	66394	28	4.235	18.685	66466	28	10.720	25.674
				66251	12	21.360	4.294	66323	30	25.722	10.210	66395	20	8.238	18.256	66467	16	12.284	25.114
				66252	37	22.432	4.116	66324	10	3.688	11.661	66396	25	9.100	18.477	66468	10	12.406	25.380
				66253	10	23.689	4.046	66325	9	8.941	11.415	66397*	58	16.690	18.062	66469	29	13.516	25.742
				66254	42	25.272	4.800	66326	12	14.587	11.170	66398	26	16.748	18.643	66470	18	14.382	25.396
				66255	13	25.281	4.253	66327	13	17.068	11.658	66399	44	20.514	18.187	66471	10	17.739	25.291
				66256	16	0.185	5.326	66328	10	22.168	11.582	66400	16	20.870	18.885	66472	15	18.170	25.052
				66257	15	0.540	5.113	66329	10	22.270	11.516	66401	17	22.176	18.567	66473	10	21.540	25.926
				66258	29	1.114	5.030	66330	10	23.068	11.840	66402	10	23.262	18.929	66474	24	21.884	25.550
				66259	26	4.668	5.650	66331	29	23.910	11.002	66403	10	23.275	18.600	66475	10	22.370	25.470
				66260	40	5.205	5.008	66332	22	23.976	11.106	66404	15	24.060	18.444	66476	59	22.430	25.290
				66261*	62	5.580	5.627	66333	22	24.600	11.879	66405	10	24.730	18.371	66477	9	23.932	25.271
				66262	13	6.514	5.598	66334	23	24.840	11.340	66406	29	25.200	18.174	66478	59	24.143	25.910
				66263	14	7.790	5.105	66335	10	25.138	11.678	66407	27	18.558	19.244				
				66264	15	8.814	5.764	66336	29	1.455	12.881	66408	8	20.920	19.550				
				66265	9	10.514	5.648	66337	18	1.754	12.304	66409	30	4.750	20.646				
				66266	27	11.242	5.432	66338	10	2.114	12.708	66410	17	5.936	20.694				
				66267	23	12.422	5.290	66339	15	16.066	12.565	66411	13	8.804	20.241				
				66268	24	19.566	5.836	66340	25	19.600	12.293	66412	16	12.923	20.523				
				66269	10	21.280	5.152	66341	13	24.660	12.165	66413	24	16.100	20.150				
				66270	21	22.626	5.490	66342	14	24.686	12.503	66414	20	16.644	20.250				
				66271	41	23.226	5.766	66343	41	24.762	12.893	66415*	51	21.362	20.436				
				66272	31	25.190	5.030	66344	36	25.622	12.274	66416	28	23.306	20.144				
				66273	27	4.282	6.699	66345	45	25.780	12.142	66417	13	0.094	21.122				
				66274	19	5.578	6.618	66346	26	25.956	12.861	66418	10	1.285	21.822				
				66275	22	10.431	6.486	66347*	42	0.551	13.410	66419	25	5.725	21.636				
				66276	17	14.388	6.610	66348	37	4.130	13.546	66420	16	8.612	21.275				
				66277	26	16.020	6.236	66349	19	11.618	13.046	66421	10	14.492	21.732				
				66278*	58	18.588	6.494	66350	42	17.092	13.896	66422	28	16.870	21.770				
				66279	13	22.770	6.485	66351*	54	18.580	13.998	66423	10	17.854	21.434				
				66280	36	24.436	6.476	66352	23	22.080	13.600	66424	10	18.500	21.730				
				66281	33	24.480	6.336	66353*	45	23.702	13.730	66425	14	19.574	21.215				
				66282	27	1.165	7.214	66354	19	24.796	13.663	66426*	59	19.974	21.744				
				66283	9	9.327	7.919	66355	20	6.720	14.150	66427	20	20.108	21.600				
				66284	17	24.596	7.112	66356*	48	10.740	14.248	66428*	59	20.953	21.206				
				66285	20	25.110	7.844	66357	18	15.335	14.674	66429	9	22.517	21.458				
				66286	29	25.213	7.334	66358	51	22.356	14.364	66430	48	24.564	21.395				
				66287*	70	1.368	8.720	66359	29	22.406	14.986	66431	16	24.574	21.918				
				66288	10	2.818	8.252	66360	31	25.380	14.614	66432	10	25.012	21.270				
				66289	29	2.978	8.426	66361*	28	2.794	15.806	66433	28	25.488	21.760				
				66290	17	3.830	8.805	66362	17	5.278	15.916	66434	23	25.794	21.714				
				66291*	43	3.983	8.264	66363	27	6.930	15.065	66435	14	6.930	22.335				
				66292	32	10.159	8.476	66364	14	8.005	15.026	66436	14	7.588	22.316				
				66293	11	12.942	8.987	66365	10	9.462	15.078	66437	29	8.067	22.078				
				66294	11	16.286	8.349	66366	28	18.960	15.978	66438	12	9.752	22.557				
				66295	13	17.260	8.590	66367	14	20.521	15.010	66439	31	14.330	22.630				
				66296	16	17.406	8.770	66368	11	20.693	15.450	66440	22	15.064	22.148				
				66297	14	18.610	8.075	66369*	62	21.920	15.048	66441	20	16.309	22.030				
				66298	12	19.086	8.110	66370	11	24.804	15.106	66442	15	17.616	22.570				
				66299*	62	22.242	8.852	66371	18	25.708	15.456	66443	10	20.712	22.166				
				66300	34	22.727	8.814	66372*	62	1.634	16.226	66444	13	25.144	22.384				
				66301	14	24.272	8.780	66373	13	3.516	16.284	66445	12	1.582	23.144				
				66302	41	25.678	8.962	66374	30	3.600	16.576	66446	28	7.964	23.279				
				66303*	59	0.191	9.540	66375*	74	3.690	16.852	66447	30	10.516	23.063				
				66304	9	4.676	9.012	66376*	56	3.748	16.200	66448	13	13.402	23.068				
				66305	29	21.120	9.562	66377	16	6.512	16.639	66449	23	15.550	23.372				
				66306	20	24.032	9.426	66378	10	7.094	16.043	66450	31	16.068	23.495				
				66307	14	24.924	9.763	66379	11	8.786	16.764	66451*	42	17.013	23.779				
				66308	14	25.010	9.220	66380*	48	8.826	16.472	66452	46	19.561	23.728				
				66309	11	1.258	10.865	66381	28	10.340	16.388	66453	12	20.330	23.088				
				66310	9	1.498	10.816	66382	27	10.975	16.100	66454	10	23.837	23.740				
				66311	14	6.423	10.090	66383	33	19.250	16.450	66455	28	23.932	23.054				
				66312*	90	8.004	10.916	66384	23	24.122	16.782	66456	14	25.717	23.501				

R.A. 17<sup>h</sup> 24<sup>m</sup>

Plate 1996, 1922 Aug 12

Provisional Constants.

A      B      C  
-01753 +00278 -1333

D      E      F  
-00245 -01769 -4389

Mag.=17.1-1.05√d

No.	d	x	y
66201	12	9.686	0.572
66202	11	10.400	0.554
66203	13	10.721	0.200
66204	19	24.167	0.764
66205*	53	25.014	0.929
66206	15	1.450	1.364
66207	18	6.424	1.663
66208	27	9.120	1.612
66209	11	9.272	1.567
66210	16	9.966	1.068
66211	16	10.210	1.840
66212	28	11.800	1.833
66213	16	18.176	1.154
66214*	33	23.571	1.494
66215	31	25.592	1.553
66216	28	25.848	1.078
66217	21	1.640	2.015
66218	10	2.617	2.474
66219	12	4.120	2.024
66220	10	4.846	2.602
66221	12	5.766	2.118
66222	13	6.084	2.915
66223	11	7.606	2.024
66224	11	8.946	2.545
66225	19	16.155	2.496
66226*	47	18.319	2.022
66227	30	18.876	2.020
66228	10	21.270	2.968
66229	11	25.070	2.143
66230	28	25.449	2.448
66231	10	25.861	2.756
66232	11	0.176	3.797
66233	9	0.432	3.112
66234*	52	0.465	3.286
66235*	59	5.171	3.240
66236*	47	8.390	3.838
66237	21	10.33	



66527	34	20.140	1.800	66599	12	20.492	4.732	66671	12	11.235	7.610	66743	10	17.830	9.091	66815	22	17.550	11.355
66528	23	22.210	1.704	66600	12	20.522	4.613	66672*	56	11.694	7.949	66744	20	18.520	9.306	66816	11	17.724	11.986
66529	20	22.568	1.428	66601	15	20.782	4.858	66673	15	12.304	7.695	66745	13	19.409	9.473	66817	12	17.758	11.058
66530	12	25.602	1.712	66602	22	0.761	5.646	66674*	51	12.598	7.696	66746	14	19.555	9.356	66818	18	18.175	11.645
66531	62	25.616	1.127	66603	35	1.365	5.914	66675	12	13.109	7.298	66747	31	19.588	9.002	66819	13	19.311	11.324
66532	10	2.770	2.541	66604	26	3.314	5.144	66676	10	15.764	7.116	66748	10	20.026	9.030	66820	12	19.544	11.595
66533	11	2.900	2.674	66605	10	3.934	5.924	66677	10	17.040	7.098	66749	25	21.386	9.515	66821	12	21.148	11.704
66534	14	3.145	2.260	66606	12	4.267	5.121	66678	10	17.497	7.875	66750	13	21.640	9.340	66822	26	21.596	11.838
66535	22	3.529	2.555	66607	15	6.252	5.735	66679	32	17.605	7.606	66751	11	21.925	9.863	66823	17	22.425	11.080
66536	14	3.947	2.856	66608	10	6.495	5.608	66680	16	18.750	7.968	66752	10	22.428	9.664	66824	10	0.495	12.474
66537	14	7.400	2.686	66609	28	6.875	5.324	66681	22	19.230	7.788	66753	10	22.518	9.905	66825	13	2.914	12.284
66538	22	10.695	2.275	66610	10	7.165	5.579	66682	13	19.620	7.887	66754	22	22.854	9.001	66826	14	2.944	12.622
66539	30	11.495	2.730	66611	16	7.604	5.067	66683	10	19.625	7.197	66755	20	23.138	9.594	66827	29	3.875	12.376
66540	30	11.804	2.761	66612	17	7.788	5.615	66684	25	20.245	7.705	66756	24	23.598	9.834	66828	39	4.030	12.240
66541	15	13.430	2.986	66613	20	8.320	5.630	66685	17	21.094	7.072	66757	10	24.195	9.340	66829	21	4.220	12.956
66542	13	14.385	2.009	66614	16	8.705	5.970	66686	16	21.966	7.466	66758	14	25.446	9.480	66830	12	6.526	12.886
66543	17	19.034	2.769	66615	10	9.375	5.586	66687	16	22.584	7.614	66759	15	25.560	9.725	66831	35	6.623	12.692
66544	13	21.436	2.572	66616	10	9.570	5.462	66688	10	22.882	7.414	66760	16	0.246	10.732	66832	10	6.755	12.428
66545	19	22.120	2.838	66617	13	12.345	5.175	66689	10	23.435	7.878	66761	19	1.887	10.445	66833	20	7.823	12.294
66546	37	22.715	2.285	66618	17	14.200	5.930	66690	14	23.822	7.751	66762	10	2.145	10.588	66834	14	8.035	12.954
66547	22	24.458	2.380	66619	10	14.522	5.822	66691	25	0.920	8.968	66763	10	2.294	10.061	66835	13	8.966	12.401
66548	10	24.470	2.580	66620	20	14.866	5.528	66692	10	2.163	8.622	66764	16	3.322	10.440	66836	11	11.574	12.196
66549	12	25.435	2.604	66621	14	17.666	5.594	66693	11	2.168	8.840	66765	25	3.938	10.312	66837	14	11.692	12.334
66550	11	0.458	3.195	66622	20	18.536	5.634	66694	15	2.464	8.905	66766	11	4.205	10.521	66838*	48	12.082	12.078
66551	13	2.795	3.183	66623	24	21.514	5.076	66695	13	2.574	8.186	66767	24	4.667	10.662	66839	22	13.215	12.634
66552	11	3.015	3.941	66624	26	22.372	5.436	66696	24	6.338	8.748	66768	12	8.202	10.760	66840	11	14.462	12.270
66553*	42	3.810	3.206	66625	17	23.410	5.284	66697	12	8.245	8.754	66769	12	8.277	10.175	66841	10	14.890	12.134
66554	14	4.198	3.088	66626	25	23.508	5.944	66698	22	8.562	8.122	66770	17	8.776	10.918	66842	19	15.724	12.959
66555	28	5.864	3.850	66627	27	23.585	5.581	66699	12	8.724	8.002	66771	30	9.218	10.314	66843	15	16.235	12.308
66556	34	6.408	3.284	66628	10	0.186	6.493	66700	20	8.895	8.132	66772	14	12.350	10.110	66844	20	16.874	12.230
66557	22	6.680	3.695	66629	13	0.924	6.640	66701	11	9.649	8.162	66773	11	13.332	10.400	66845	13	16.874	12.336
66558	12	6.682	3.426	66630	28	2.585	6.602	66702	22	10.170	8.366	66774	12	15.792	10.260	66846	11	17.178	12.654
66559	10	7.038	3.783	66631	24	2.627	6.462	66703	36	10.453	8.183	66775	14	15.967	10.975	66847	20	17.675	12.746
66560*	38	7.270	3.008	66632	10	3.944	6.557	66704	24	12.610	8.737	66776	14	16.501	10.039	66848	11	18.814	12.513
66561	28	7.366	3.780	66633	19	4.876	6.355	66705	10	14.687	8.868	66777	33	16.605	10.028	66849	13	18.818	12.365
66562	10	7.735	3.618	66634	10	5.398	6.183	66706*	47	15.270	8.556	66778	14	17.051	10.903	66850	24	18.970	12.952
66563	12	7.925	3.398	66635	24	5.670	6.465	66707*	54	16.612	8.200	66779	13	17.128	10.016	66851	10	21.121	12.732
66564	16	12.145	3.555	66636	10	5.730	6.782	66708	11	16.888	8.092	66780	27	17.186	10.705	66852	13	22.340	12.296
66565	15	13.965	3.925	66637	15	7.268	6.395	66709	10	16.912	8.120	66781	24	17.779	10.166	66853	10	22.634	12.905
66566	10	14.188	3.231	66638	15	7.275	6.977	66710	37	19.740	8.751	66782	19	18.398	10.464	66854	20	0.360	13.764
66567	12	14.398	3.226	66639	22	7.882	6.306	66711	32	19.808	8.857	66783	10	18.795	10.797	66855*	37	1.981	13.866
66568	33	14.559	3.266	66640	12	7.931	6.574	66712	22	20.082	8.098	66784	10	19.552	10.552	66856	33	3.026	13.012
66569	12	16.021	3.836	66641	12	9.850	6.628	66713	12	20.115	8.926	66785	10	19.686	10.098	66857	20	3.075	13.777
66570	11	18.360	3.965	66642	11	10.218	6.950	66714	11	20.907	8.641	66786	10	19.772	10.668	66858	17	4.480	13.071
66571	12	18.460	3.322	66643*	36	13.450	6.386	66715	17	21.575	8.534	66787	13	19.788	10.672	66859	18	5.345	13.626
66572	11	21.026	3.132	66644	12	14.022	6.940	66716	11	22.646	8.235	66788	19	20.102	10.646	66860	12	5.888	13.133
66573	11	25.264	3.006	66645	22	17.174	6.062	66717	10	22.761	8.575	66789	25	20.461	10.084	66861	13	6.016	13.626
66574	12	25.785	3.917	66646	17	22.855	6.986	66718	10	23.334	8.302	66790*	60	20.889	10.054	66862*	45	7.012	13.980
66575	28	0.544	4.278	66647	12	23.036	6.864	66719	13	24.084	8.615	66791	16	21.535	10.685	66863	10	7.071	13.654
66576	14	1.800	4.186	66648	10	23.283	6.242	66720	10	24.211	8.629	66792	14	21.756	10.804	66864	13	7.766	13.771
66577	34	3.392	4.912	66649	13	23.304	6.242	66721	14	24.658	8.488	66793	20	21.866	10.248	66865	10	10.405	13.316
66578	12	3.394	4.364	66650	10	23.576	6.786	66722	19	24.831	8.128	66794	20	25.975	10.153	66866	40	10.921	13.088
66579	12	4.385	4.386	66651	12	23.636	6.766	66723	12	25.169	8.634	66795	12	0.413	11.745	66867	23	11.420	13.808
66580	21	4.400	4.844	66652	11	25.605	6.284	66724*	50	0.434	9.014	66796	11	0.510	11.677	66868	13	11.512	13.462
66581	23	4.428	4.705	66653	11	2.208	7.300	66725	14	2.235	9.556	66797	12	1.314	11.986	66869	10	11.520	13.186
66582	15	5.285	4.098	66654	20	2.764	7.535	66726	11	2.366	9.330	66798	24	2.142	11.134	66870	10	11.654	13.255
66583	15	7.329	4.145	66655	20	3.286	7.956	66727	14	3.135	9.877	66799	20	2.210	11.236	66871	34	11.811	13.654
66584	10	7.377	4.198	66656	20	3.380	7.445	66728	13	3.210	9.335	66800	10	2.806	11.375	66872	23	12.052	13.190
66585	10	7.725	4.806	66657	10	4.037	7.653	66729	35	3.872	9.065	66801	18	2.846	11.996	66873	14	13.170	13.104
66586	25	7.740	4.792	66658	19	4.205	7.401	66730	28	6.360	9.986	66802	19	3.077	11.456	66874	28	14.505	13.615
66587*	40	7.931	4.182	66659	25	4.874	7.620	66731*	60	6.570	9.369	66803	12	3.379	11.785	66875	11	14.750	13.944
66588	13	7.944	4.622	66660	14	5.500	7.140	66732	10	7.795	9.491	66804	10	6.042	11.409	66876	20	15.170	13.496
66589	22	11.410	4.420	66661	33	5.589	7.502	66733	10	8.504	9.635	66805*	50	6.396	11.601	66877	33		



66887	10	4.354	14.253	66959	33	15.112	16.605	67031	30	21.645	18.665	67103	25	3.910	21.858	67175	12	18.300	23.815
66888	40	4.731	14.146	66960	12	15.178	16.594	67032	16	21.880	18.845	67104	21	4.215	21.808	67176	11	18.344	23.449
66889	11	5.004	14.494	66961	9	15.690	16.876	67033	28	22.406	18.125	67105	10	4.461	21.584	67177	9	19.178	23.180
66890	12	5.268	14.795	66962	30	16.096	16.244	67034	19	22.810	18.022	67106	30	5.122	21.860	67178	12	19.865	23.458
66891	10	6.178	14.834	66963	13	16.498	16.556	67035	14	23.470	18.525	67107	17	6.374	21.070	67179	15	22.206	23.571
66892	25	7.250	14.058	66964	10	17.270	16.401	67036	10	23.504	18.370	67108	22	6.738	21.295	67180	20	23.479	23.706
66893	20	11.206	14.100	66965	19	18.652	16.970	67037	12	23.574	18.025	67109	14	6.800	21.600	67181	24	0.046	24.186
66894	11	11.783	14.814	66966	10	21.654	16.902	67038	17	25.397	18.039	67110	13	8.404	21.596	67182	12	3.100	24.698
66895	67	12.194	14.641	66967	25	21.698	16.922	67039	9	1.118	19.163	67111	12	9.817	21.669	67183	16	3.334	24.255
66896	14	13.147	14.824	66968	13	21.912	16.582	67040	12	1.635	19.068	67112	28	10.418	21.054	67184	15	5.188	24.478
66897	12	14.599	14.966	66969	11	22.116	16.182	67041	10	2.706	19.236	67113	14	10.556	21.610	67185	30	5.315	24.787
66898	21	15.512	14.383	66970	14	22.567	16.226	67042	10	3.900	19.868	67114	10	11.939	21.796	67186	22	6.863	24.614
66899	29	15.755	14.588	66971	14	23.100	16.973	67043	13	4.445	19.198	67115	24	12.050	21.000	67187	16	9.090	24.705
66900	11	16.618	14.285	66972	10	23.414	16.250	67044	11	4.568	19.953	67116	26	12.290	21.183	67188	12	10.436	24.438
66901	14	17.014	14.154	66973	24	23.415	16.107	67045	24	5.096	19.184	67117	10	12.735	21.564	67189	10	10.815	24.847
66902	10	17.623	14.306	66974	18	1.817	17.497	67046	27	5.394	19.866	67118	14	13.123	21.446	67190	36	11.485	24.326
66903	10	19.806	14.256	66975	26	4.569	17.345	67047	13	6.774	19.324	67119	10	14.703	21.718	67191	17	11.921	24.228
66904	11	19.865	14.888	66976	40	4.867	17.364	67048	10	6.783	19.909	67120	12	15.286	21.640	67192	34	13.366	24.372
66905	14	20.323	14.554	66977	28	8.292	17.132	67049	16	7.155	19.828	67121	10	19.548	21.497	67193	19	13.631	24.593
66906	42	21.924	14.915	66978	20	8.459	17.472	67050	32	7.544	19.948	67122	20	20.856	21.871	67194	12	14.620	24.467
66907	16	24.052	14.680	66979	10	8.802	17.614	67051	16	7.606	19.235	67123	25	22.114	21.450	67195	10	15.675	24.622
66908	21	24.520	14.745	66980	11	9.804	17.062	67052	15	8.488	19.424	67124	17	22.925	21.166	67196	12	15.903	24.976
66909	50	0.222	15.216	66981	19	10.655	17.082	67053	12	9.460	19.813	67125	11	2.917	22.376	67197	25	16.230	24.535
66910	24	0.710	15.145	66982	12	11.178	17.890	67054	17	10.034	19.694	67126	15	2.996	22.035	67198	28	20.315	24.546
66911	10	0.854	15.472	66983	51	11.179	17.970	67055	24	11.191	19.892	67127	16	3.576	22.490	67199	27	22.406	24.278
66912	13	3.111	15.220	66984	12	11.468	17.634	67056	10	11.592	19.227	67128	32	5.495	22.084	67200	14	23.094	24.926
66913	12	3.883	15.775	66985	11	11.642	17.586	67057	10	12.072	19.585	67129	33	5.514	22.252	67201	18	23.200	24.268
66914	18	4.018	15.555	66986	22	12.048	17.375	67058	10	12.245	19.732	67130	25	5.731	22.610	67202	25	23.696	24.306
66915	20	6.650	15.266	66987	12	12.198	17.186	67059	14	12.905	19.416	67131	31	5.864	22.655	67203	14	24.306	24.090
66916	24	8.654	15.745	66988	18	12.486	17.340	67060	12	13.120	19.564	67132	11	7.972	22.826	67204	20	0.375	25.714
66917	34	8.854	15.138	66989	44	13.090	17.606	67061	28	13.994	19.725	67133	33	8.589	22.959	67205	13	0.856	25.626
66918	12	11.070	15.169	66990	18	13.645	17.438	67062	32	15.275	19.355	67134	14	12.466	22.552	67206	58	0.913	25.445
66919	10	13.467	15.778	66991	28	14.089	17.765	67063	20	15.726	19.560	67135	10	12.575	22.032	67207	13	2.419	25.398
66920	24	14.680	15.736	66992	18	14.570	17.741	67064	25	17.805	19.136	67136	10	12.648	22.505	67208	13	2.845	25.120
66921	17	17.286	15.535	66993	12	16.088	17.155	67065	24	17.916	19.148	67137	20	13.097	22.556	67209	9	3.042	25.424
66922	12	17.294	15.958	66994	10	16.404	17.710	67066	10	17.940	19.224	67138	14	13.514	22.915	67210	12	4.199	25.298
66923	19	17.380	15.976	66995	32	17.112	17.364	67067	10	21.982	19.440	67139	10	14.376	22.294	67211	13	4.580	25.310
66924	10	17.720	15.051	66996	19	17.210	17.275	67068	14	22.816	19.174	67140	20	14.608	22.584	67212	35	5.583	25.356
66925	12	18.370	15.205	66997	13	21.500	17.460	67069	16	25.084	19.943	67141	90	15.048	22.386	67213	13	10.540	25.016
66926	10	18.533	15.642	66998	10	22.782	17.135	67070	20	1.699	20.285	67142	12	15.345	22.997	67214	30	10.822	25.668
66927	13	18.780	15.003	66999	22	23.272	17.210	67071	20	4.960	20.652	67143	24	16.385	22.018	67215	11	12.412	25.229
66928	12	18.784	15.479	67000	10	0.296	18.324	67072	12	5.254	20.445	67144	13	17.434	22.118	67216	22	16.062	25.837
66929	24	19.048	15.840	67001	16	0.545	18.726	67073	19	5.892	20.622	67145	10	17.480	22.198	67217	13	16.540	25.608
66930	27	19.176	15.868	67002	10	1.547	18.628	67074	28	7.015	20.612	67146	20	18.079	22.850	67218	13	17.928	25.376
66931	13	20.335	15.097	67003	12	1.628	18.662	67075	20	8.130	20.426	67147	14	18.777	22.750	67219	24	18.943	25.095
66932	13	20.986	15.344	67004	13	1.644	18.740	67076	24	8.205	20.872	67148	19	19.644	22.156	67220	13	20.518	25.098
66933	10	21.796	15.126	67005	15	2.424	18.570	67077	9	8.365	20.586	67149	10	20.735	22.917	67221	13	21.454	25.015
66934	13	22.476	15.538	67006	12	3.092	18.482	67078	10	9.061	20.265	67150	11	21.544	22.146	67222	16	22.385	25.420
66935	22	23.888	15.481	67007	22	3.556	18.280	67079	10	10.046	20.936	67151	13	22.476	22.815	67223	10	22.498	25.006
66936	10	24.415	15.749	67008	13	4.831	18.660	67080	20	10.082	20.191	67152	48	22.602	22.804	67224	12	22.915	25.574
66937	12	24.456	15.961	67009	10	6.300	18.882	67081	20	10.364	20.185	67153	14	23.994	22.157	67225	10	24.098	25.610
66938	33	24.800	15.226	67010	12	6.616	18.402	67082	30	11.083	20.024	67154	32	24.323	22.664	67226	43	24.515	25.160
66939	18	2.457	16.908	67011	14	6.956	18.985	67083	10	12.342	20.490	67155	13	24.345	22.050	67227	13	25.851	25.770
66940	22	2.936	16.460	67012	14	7.469	18.266	67084	12	12.910	20.056	67156	14	2.296	23.865				
66941	11	4.590	16.367	67013	10	8.130	18.461	67085	10	13.125	20.961	67157	24	2.376	23.182				
66942	18	6.106	16.625	67014	29	9.607	18.013	67086	20	13.214	20.689	67158	10	3.054	23.394				
66943	20	6.704	16.875	67015	22	9.670	18.534	67087	20	16.344	20.796	67159	16	4.167	23.597				
66944	12	7.036	16.430	67016	15	9.970	18.651	67088	10	16.478	20.278	67160	14	5.515	23.714				
66945	16	7.082	16.134	67017	22	10.298	18.424	67089	10	18.144	20.044	67161	115	5.634	23.926				
66946	15	7.830	16.462	67018	12	11.240	18.240	67090	28	18.414	20.653	67162	22	5.818	23.872				
66947	11	8.324	16.107	67019	11	11.540	18.532	67091	22	19.121	20.086	67163	29	6.358	23.432				
66948	10	10.286	16.583	67020	19	12.170	18.450	67092	10	19.680	20.542	67164	13	6.413	23.646				
66949	12	10.290	16.295	67021	51	13.386	18.416	67093	17	20.022	20.332	67165	24	8.092	23.466				



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67594	38	12.056	14.016	67666	15	11.876	17.730	67738	19	2.850	20.176	67810	13	21.600	22.176	67882	37	17.636	25.945
67595	16	12.573	14.465	67667	11	12.228	17.026	67739	10	3.184	20.528	67811	15	21.876	22.224	67883	42	17.685	25.882
67596	18	14.096	14.275	67668	38	13.338	17.679	67740	17	3.776	20.938	67812	57	25.410	22.904	67884	13	17.843	25.562
67597*	39	16.584	14.234	67669	17	13.338	17.239	67741	11	5.416	20.505	67813	18	0.030	23.853	67885	27	18.285	25.126
67598	13	16.922	14.586	67670	62	14.524	17.913	67742	20	6.805	20.250	67814	14	0.290	23.094	67886	37	18.780	25.355
67599	13	18.400	14.843	67671	30	14.524	17.846	67743	26	7.132	20.614	67815*	57	0.410	23.078	67887	14	19.685	25.075
67600	13	18.862	14.694	67672	12	16.080	17.525	67744	16	7.752	20.969	67816	24	1.304	23.966	67888	21	20.980	25.384
67601	12	20.450	14.445	67673	23	16.256	17.841	67745	52	8.172	20.520	67817	12	7.154	23.907	67889	36	22.708	25.894
67602	22	22.984	14.704	67674	14	16.631	17.786	67746	12	8.458	20.820	67818	21	8.015	23.704	67890	22	22.968	25.044
67603	21	23.066	14.016	67675	16	16.852	17.137	67747	10	10.221	20.404	67819	27	8.039	23.870	67891	23	25.332	25.601
67604	12	24.288	14.496	67676	11	17.572	17.606	67748	23	10.348	20.524	67820	11	8.414	23.606	67892	21	25.853	25.216
67605	37	24.712	14.728	67677	18	18.166	17.034	67749*	54	10.522	20.255	67821*	56	9.116	23.967				
67606	15	0.174	15.815	67678	38	18.226	17.138	67750	15	10.545	20.754	67822	13	11.026	23.684				
67607	30	1.582	15.736	67679	28	18.806	17.169	67751	21	10.772	20.124	67823	12	12.318	23.662				
67608	39	2.490	15.466	67680	32	19.722	17.100	67752	11	11.601	20.026	67824	15	15.234	23.085				
67609	14	3.916	15.765	67681	27	20.681	17.986	67753	20	13.232	20.764	67825	21	15.438	23.964				
67610	17	4.314	15.840	67682	28	21.256	17.364	67754	13	13.670	20.276	67826	11	17.156	23.841				
67611	12	5.674	15.264	67683	10	21.690	17.962	67755	10	14.200	20.661	67827	10	18.526	23.629				
67612	29	6.836	15.414	67684	13	21.834	17.928	67756	21	15.024	20.478	67828	26	19.244	23.394				
67613	22	8.036	15.645	67685	42	22.885	17.061	67757	13	15.130	20.896	67829	15	20.207	23.180				
67614	18	10.074	15.396	67686	15	23.914	17.882	67758	12	16.577	20.696	67830	27	20.338	23.390				
67615	10	12.468	15.064	67687	20	25.960	17.585	67759	24	17.776	20.292	67831	10	20.691	23.754				
67616	13	13.728	15.556	67688	38	0.142	18.402	67760	14	18.286	20.124	67832	38	21.455	23.274				
67617*	66	13.826	15.085	67689	21	0.544	18.292	67761*	40	18.704	20.490	67833	16	22.660	23.402				
67618	24	14.274	15.494	67690	14	1.214	18.784	67762	22	22.340	20.229	67834	18	23.399	23.902				
67619	26	14.422	15.174	67691	12	1.309	18.284	67763	12	25.728	20.060	67835	30	0.240	24.556				
67620	23	14.600	15.984	67692	13	3.136	18.266	67764	22	0.709	21.436	67836	16	1.035	24.534				
67621	16	15.718	15.850	67693	13	3.140	18.264	67765	21	1.314	21.160	67837	27	1.532	24.564				
67622	18	17.886	15.826	67694	27	4.142	18.707	67766	12	2.556	21.043	67838	17	2.140	24.338				
67623	32	18.424	15.676	67695	16	5.756	18.232	67767	22	5.075	21.808	67839	19	4.228	24.205				
67624	17	18.467	15.766	67696	22	6.647	18.458	67768	18	5.114	21.825	67840*	46	7.020	24.824				
67625	15	19.418	15.916	67697	35	8.915	18.821	67769	19	5.769	21.525	67841	18	7.074	24.026				
67626	37	19.995	15.846	67698	18	10.686	18.352	67770	26	5.908	21.095	67842	11	7.292	24.226				
67627	36	20.148	15.736	67699	10	13.096	18.112	67771	10	7.619	21.894	67843	16	7.586	24.808				
67628	24	21.290	15.251	67700	13	13.102	18.432	67772	23	8.302	21.278	67844	14	8.145	24.494				
67629	11	22.306	15.836	67701*	62	13.196	18.924	67773	12	8.988	21.744	67845	13	9.550	24.854				
67630	14	22.978	15.934	67702	17	14.744	18.746	67774	13	9.259	21.474	67846	10	11.428	24.326				
67631	13	24.442	15.847	67703	15	14.766	18.538	67775	10	11.274	21.858	67847	15	12.346	24.914				
67632	16	0.276	16.499	67704	25	14.906	18.538	67776	19	12.034	21.586	67848	12	12.602	24.702				
67633	26	1.120	16.368	67705	36	15.932	18.862	67777	11	13.631	21.422	67849	11	14.534	24.274				
67634	16	2.158	16.206	67706	13	16.970	18.224	67778	24	14.219	21.039	67850	16	14.916	24.925				
67635	13	4.270	16.138	67707	13	16.996	18.074	67779	15	14.420	21.727	67851	26	15.794	24.144				
67636	15	4.964	16.294	67708	11	17.784	18.214	67780	19	14.525	21.489	67852	22	16.064	24.155				
67637	14	5.356	16.622	67709	13	20.218	18.906	67781	18	15.079	21.676	67853	15	16.140	24.414				
67638	33	6.607	16.666	67710	22	21.832	18.134	67782	19	16.480	21.916	67854*	50	16.236	24.666				
67639	10	8.012	16.505	67711	23	23.386	18.334	67783	14	16.788	21.694	67855	9	17.493	24.866				
67640	24	8.127	16.900	67712	12	0.569	19.445	67784	14	18.408	21.804	67856	38	19.144	24.974				
67641	17	8.648	16.865	67713	13	4.128	19.480	67785	12	19.058	21.281	67857	17	19.174	24.124				
67642	22	9.130	16.800	67714*	170	5.663	19.956	67786	22	19.269	21.988	67858	22	19.992	24.104				
67643	16	9.466	16.286	67715	10	5.800	19.356	67787	18	20.766	21.640	67859	22	22.090	24.139				
67644	14	10.322	16.964	67716	23	6.532	19.182	67788	16	21.549	21.220	67860	11	24.963	24.416				
67645	17	10.649	16.585	67717	19	7.514	19.444	67789	15	21.896	21.055	67861	18	0.240	25.698				
67646	17	13.280	16.078	67718	14	8.810	19.886	67790	28	25.812	21.260	67862	14	0.942	25.196				
67647	12	13.452	16.355	67719	14	9.316	19.205	67791	18	1.795	22.409	67863	11	1.956	25.863				
67648	10	14.086	16.622	67720	21	10.896	19.764	67792	37	2.130	22.911	67864	42	2.360	25.404				
67649	10	15.115	16.488	67721	11	11.032	19.014	67793	16	2.148	22.295	67865	10	2.800	25.058				
67650	16	17.310	16.576	67722	14	12.864	19.965	67794	13	3.983	22.295	67866	12	3.708	25.994				
67651	19	18.934	16.624	67723	11	13.594	19.288	67795	14	4.230	22.263	67867	19	4.116	25.126				
67652	18	21.380	16.477	67724	26	14.974	19.316	67796	16	6.752	22.635	67868	10	4.925	25.299				
67653	18	22.175	16.150	67725	19	15.138	19.506	67797	26	9.119	22.365	67869	17	8.213	25.214				
67654	14	23.050	16.894	67726	25	15.892	19.601	67798	16	9.642	22.403	67870	107	8.309	25.988				
67655	17	23.390	16.610	67727	23	16.077	19.576	67799	14	9.764	22.049	67871	10	9.753	25.060				
67656	11	23.700	16.385	67728	12	17.964	19.069	67800	11	10.436	22.916	67872*	39	10.883	25.096				
67657	17	24.930	16.750	67729	23	18.115	19.006	67801	18	14.372	22.651	67873	16	11.997	25.813				
67658	18	0.822	17.236	67730	14	18.578	19.646	67802	18	16.676	22.008	67874	12	12.536	25.076				
67659	31	0.995	17.473	67731	19	19.114	19.344	67803	23	17.592	22.444	67875	13	14.003	25.697				
67660	16	4.424	17.684	67732	19	19.304	19.616	67804	24	17.931	22.046	67876	22	14.182	25.777				
67661	14	4.713	17.974	67733	14	19.492	19.004	67805	21	19.296	22.885	67877	39	16.188	25.775				
67662	39	5.686	17.026	67															



67938	21	19.476	1.415	68010	38	21.056	4.535	68082	40	25.989	6.337	68154	15	8.060	10.268	68226	25	13.256	14.250
67939	38	23.766	1.295	68011	28	21.157	4.925	68083	35	3.594	7.215	68155	20	8.070	10.264	68227	30	13.496	14.577
67940	20	23.801	1.881	68012	17	21.284	4.126	68084	39	5.356	7.908	68156	16	8.366	10.810	68228	36	15.376	14.810
67941	38	24.794	1.636	68013	23	21.494	4.060	68085	26	6.894	7.608	68157	14	9.363	10.024	68229	20	19.550	14.550
67942	17	25.776	1.638	68014	38	22.778	4.484	68086*	40	7.558	7.461	68158*	72	10.368	10.284	68230	42	19.659	14.656
67943	32	0.954	2.266	68015	38	22.900	4.774	68087	28	7.801	7.044	68159	17	13.036	10.926	68231	35	19.666	14.036
67944	44	4.122	2.146	68016	14	22.932	4.358	68088	55	8.294	7.465	68160*	40	20.766	10.396	68232	13	21.215	14.368
67945	28	7.100	2.484	68017	17	24.179	4.749	68089	20	9.408	7.326	68161	26	21.182	10.025	68233	37	21.799	14.376
67946*	52	7.402	2.549	68018	18	25.254	4.656	68090	22	9.500	7.334	68162	41	22.424	10.405	68234	15	22.199	14.229
67947	24	7.714	2.056	68019	22	25.434	4.838	68091	28	10.221	7.051	68163	17	23.414	10.119	68235	39	22.638	14.503
67948	32	9.544	2.044	68020	17	2.942	5.752	68092	21	10.895	7.055	68164	30	25.014	10.994	68236	18	23.491	14.760
67949	18	10.316	2.765	68021	38	3.467	5.928	68093	20	13.370	7.734	68165	21	25.126	10.266	68237	39	4.874	15.226
67950	17	10.354	2.504	68022	26	5.244	5.330	68094	39	13.892	7.788	68166	38	1.955	11.194	68238	18	5.056	15.205
67951	38	14.970	2.016	68023	20	7.166	5.155	68095	18	15.682	7.620	68167	17	2.140	11.412	68239	16	5.596	15.114
67952	12	15.606	2.571	68024*	59	7.244	5.434	68096	39	16.116	7.144	68168*	54	5.326	11.666	68240	15	6.257	15.912
67953	19	16.013	2.600	68025	38	8.223	5.516	68097	16	16.314	7.892	68169	15	6.546	11.826	68241	14	10.123	15.144
67954	16	16.914	2.834	68026	12	8.628	5.295	68098	37	18.274	7.686	68170	24	8.674	11.064	68242	39	10.634	15.794
67955	15	17.538	2.831	68027	38	11.928	5.550	68099	23	18.502	7.500	68171	19	14.336	11.098	68243	24	10.885	15.916
67956	17	18.080	2.694	68028	18	12.890	5.448	68100	16	19.944	7.134	68172	14	15.233	11.990	68244	39	10.914	15.746
67957	14	18.139	2.554	68029	22	13.556	5.076	68101	24	20.230	7.969	68173	39	15.465	11.960	68245	16	11.815	15.330
67958	42	19.885	2.716	68030	22	13.601	5.738	68102	17	20.628	7.895	68174	44	15.526	11.926	68246	37	19.704	15.143
67959	40	21.214	2.630	68031	26	15.121	5.146	68103	14	22.225	7.270	68175	14	16.308	11.076	68247	18	21.874	15.271
67960*	54	21.914	2.588	68032	17	15.336	5.908	68104	29	22.866	7.365	68176	23	16.920	11.894	68248	17	23.086	15.102
67961	15	22.478	2.954	68033	22	15.340	5.615	68105*	72	22.992	7.662	68177	38	16.982	11.496	68249	26	24.240	15.491
67962	30	2.996	3.764	68034	12	15.346	5.194	68106*	58	24.226	7.226	68178	14	17.724	11.646	68250	40	25.164	15.136
67963	24	4.529	3.650	68035*	56	15.812	5.036	68107	16	24.298	7.290	68179	23	17.808	11.305	68251	26	25.504	15.756
67964*	50	4.685	3.443	68036	16	16.170	5.516	68108	28	24.876	7.708	68180	19	18.174	11.458	68252	16	0.536	16.365
67965	21	5.438	3.044	68037	25	16.590	5.338	68109	35	2.462	8.694	68181	17	19.230	11.515	68253	23	1.760	16.806
67966	32	7.078	3.636	68038	16	17.122	5.694	68110	38	3.244	8.675	68182	15	19.586	11.724	68254	17	2.801	16.027
67967	38	7.240	3.768	68039	16	19.922	5.806	68111	17	15.264	8.764	68183	14	20.042	11.735	68255	15	3.302	16.924
67968	38	8.222	3.297	68040	40	19.960	5.035	68112	44	17.552	8.883	68184	18	24.262	11.400	68256	17	4.500	16.617
67969	38	9.442	3.374	68041	39	20.276	5.517	68113	15	18.336	8.648	68185	14	24.393	11.680	68257	34	5.117	16.894
67970	39	10.806	3.247	68042	40	20.329	5.416	68114	26	18.794	8.134	68186	21	24.686	11.102	68258	40	5.588	16.580
67971	37	11.550	3.863	68043	34	20.476	5.876	68115	38	19.100	8.720	68187	15	0.016	12.356	68259	23	6.120	16.796
67972	30	13.750	3.146	68044	17	22.766	5.740	68116	18	19.906	8.818	68188	32	1.004	12.016	68260	29	6.350	16.702
67973	18	13.890	3.451	68045	18	23.558	5.385	68117	34	20.374	8.414	68189	16	1.016	12.016	68261	32	6.474	16.836
67974	38	14.457	3.155	68046	14	23.597	5.980	68118	26	20.420	8.048	68190	25	2.234	12.285	68262	27	6.475	16.458
67975	37	16.400	3.944	68047	27	23.604	5.642	68119	24	20.835	8.036	68191	18	4.870	12.518	68263	16	6.606	16.244
67976	40	16.600	3.645	68048	39	23.652	5.731	68120	34	20.859	8.044	68192*	66	7.014	12.764	68264	30	8.114	16.655
67977	12	18.034	3.207	68049	15	3.266	6.422	68121	17	21.484	8.923	68193	28	7.384	12.076	68265	39	9.250	16.916
67978	17	21.503	3.766	68050	24	5.995	6.384	68122	39	22.806	8.578	68194	15	8.801	12.166	68266*	62	10.584	16.910
67979	28	21.642	3.810	68051	15	6.514	6.056	68123	24	25.792	8.305	68195	15	9.195	12.500	68267	32	13.320	16.154
67980	21	22.276	3.625	68052	17	7.874	6.155	68124	37	1.026	9.734	68196	15	10.160	12.352	68268	21	13.365	16.552
67981	20	22.818	3.630	68053	17	8.122	6.710	68125	17	4.494	9.322	68197*	60	14.864	12.303	68269	26	16.100	16.234
67982	18	22.851	3.934	68054	14	8.390	6.592	68126	36	4.726	9.856	68198	20	16.004	12.609	68270	54	17.960	16.992
67983	18	23.215	3.836	68055	15	8.392	6.983	68127	38	7.126	9.222	68199	37	16.956	12.754	68271	18	21.808	16.035
67984*	55	25.292	3.488	68056	38	8.868	6.879	68128	14	8.556	9.007	68200	15	17.200	12.759	68272	21	23.459	16.146
67985	24	2.195	4.493	68057	14	10.076	6.100	68129	36	9.834	9.833	68201	13	20.350	12.440	68273	44	1.258	17.264
67986	40	2.984	4.446	68058	15	10.685	6.484	68130	21	9.972	9.220	68202	19	21.250	12.114	68274	18	1.424	17.095
67987	25	3.518	4.728	68059	17	11.070	6.364	68131	16	11.340	9.332	68203	34	21.419	12.477	68275	23	4.342	17.745
67988	21	3.884	4.418	68060	42	11.403	6.149	68132	20	11.584	9.460	68204	15	21.670	12.657	68276	37	8.522	17.187
67989	18	5.580	4.998	68061	26	11.451	6.066	68133	21	11.956	9.850	68205	39	25.354	12.864	68277	12	9.023	17.062
67990	17	5.976	4.614	68062	24	11.736	6.384	68134	13	12.993	9.564	68206	13	1.470	13.197	68278	38	11.230	17.056
67991	34	6.424	4.476	68063	26	12.022	6.752	68135	16	13.650	9.805	68207	12	4.668	13.328	68279	36	12.142	17.908
67992	24	9.250	4.484	68064	24	12.644	6.050	68136	28	14.034	9.345	68208	30	5.916	13.754	68280	37	12.474	17.125
67993	14	11.630	4.414	68065	38	12.909	6.378	68137	15	15.683	9.328	68209	44	6.417	13.994	68281*	62	14.684	17.316
67994	39	11.694	4.278	68066	21	14.378	6.782	68138	38	17.739	9.965	68210	37	9.126	13.506	68282	27	16.331	17.870
67995	37	11.966	4.735	68067	32	15.090	6.751	68139	12	18.177	9.516	68211	21	9.134	13.526	68283	39	17.916	17.694
67996	16	12.615	4.776	68068	30	18.735	6.036	68140	17	18.916	9.586	68212*	74	11.786	13.865	68284	15	18.466	17.368
67997	34	13.672	4.696	68069	23	18.739	6.116	68141	40	19.874	9.946	68213	32	16.714	13.926	68285*	55	19.634	17.265
67998	17	13.770	4.412	68070	27	18.908	6.306	68142	21	20.496	9.472	68214	23	20.260	13.624	68286	16	20.320	17.292
67999	21	13.990	4.698	68071	25	19.014	6.488	68143	25	21.424	9.136	68215	42	21.350	13.906	68287	18	21.422	17.696
68000	13	14.048	4.036	68072	15	19.608	6.634	68144	16	24.289	9.291	6							



68298	20	9.646	18.455	68370	30	20.146	21.526	68442	50	23.438	24.784	68528	25	6.353	1.729	68600*	57	0.794	8.258
68299	44	9.846	18.456	68371	38	20.198	21.406	68443	28	24.560	24.477	68529	22	7.690	1.364	68601	21	7.935	8.374
68300	28	11.958	18.256	68372	42	20.306	21.095	68444	38	1.456	25.244	68530	35	21.950	1.377	68602	9	8.278	8.210
68301	17	13.390	18.382	68373	21	21.594	21.634	68445	38	3.830	25.772	68531	12	22.170	1.835	68603*	30	11.718	8.604
68302	14	14.899	18.906	68374	27	23.086	21.168	68446	29	4.345	25.376	68532	19	2.528	2.212	68604	10	12.890	8.375
68303	28	15.586	18.176	68375	30	23.176	21.407	68447	31	5.089	25.590	68533	14	4.110	2.783	68605	16	14.434	8.644
68304	26	18.126	18.290	68376	18	4.699	22.548	68448	23	5.659	25.899	68534	19	7.366	2.558	68606	14	16.932	8.033
68305	30	20.461	18.500	68377	37	6.120	22.154	68449	40	8.174	25.755	68535	10	12.750	2.535	68607	12	17.035	8.874
68306	38	21.858	18.512	68378	33	7.252	22.065	68450	38	10.844	25.873	68536	14	13.118	2.605	68608	36	19.112	8.554
68307	16	21.936	18.495	68379	16	8.090	22.494	68451	34	12.030	25.217	68537	25	19.175	2.443	68609	10	19.118	8.763
68308	30	22.156	18.946	68380	14	8.438	22.442	68452	35	12.549	25.476	68538	33	20.148	2.628	68610	17	19.980	8.387
68309	36	22.586	18.426	68381	37	8.439	22.665	68453	38	12.794	25.594	68539	14	25.408	2.970	68611*	43	20.000	8.066
68310	37	25.721	18.120	68382	15	9.189	22.305	68454	36	13.627	25.900	68540	25	25.659	2.326	68612	28	24.554	8.100
68311	34	1.439	19.584	68383	34	9.213	22.159	68455	16	13.985	25.249	68541	27	7.454	3.250	68613	18	0.620	9.176
68312	40	4.298	19.846	68384	40	9.530	22.220	68456	35	14.642	25.063	68542	11	12.008	3.176	68614	28	5.289	9.135
68313	16	6.424	19.138	68385	18	10.706	22.395	68457	29	17.178	25.056	68543	10	12.516	3.562	68615	15	7.474	9.135
68314	17	10.490	19.224	68386	21	10.890	22.236	68458	44	17.257	25.825	68544	11	13.874	3.077	68616	10	7.650	9.274
68315	37	11.384	19.739	68387	21	11.194	22.499	68459	23	18.770	25.879	68545	11	17.160	3.480	68617	25	8.090	9.620
68316	37	12.458	19.449	68388	28	12.669	22.996	68460	35	23.077	25.836	68546	15	17.492	3.303	68618	21	8.292	9.505
68317	22	12.559	19.845	68389	37	13.764	22.460	68461	35	23.435	25.502	68547	22	19.800	3.550	68619*	116	14.576	9.187
68318	39	12.738	19.600	68390	14	13.880	22.474	68462	41	24.005	25.272	68548	20	21.930	3.154	68620	19	15.483	9.111
68319	16	13.455	19.925	68391	39	15.496	22.252	68463	46	24.006	25.884	68549	26	22.628	3.204	68621	23	15.734	9.190
68320	18	15.146	19.056	68392	37	18.867	22.274					68550	28	24.642	3.128	68622	37	18.694	9.800
68321	28	17.562	19.648	68393	16	19.044	22.008					68551*	35	3.048	4.059	68623	13	18.900	9.878
68322	18	18.265	19.125	68394	21	19.490	22.330					68552*	80	7.324	4.804	68624	26	23.010	9.066
68323	50	20.281	19.386	68395	38	22.250	22.464					68553*	14	7.694	4.129	68625	15	2.804	10.074
68324	14	20.625	19.884	68396	19	22.350	22.300					68554	14	15.380	4.428	68626	26	4.516	10.964
68325	39	20.713	19.534	68397	32	22.465	22.406					68555	11	15.733	4.500	68627*	60	10.356	10.264
68326	17	22.434	19.565	68398	18	23.150	22.900					68556	25	19.821	4.239	68628	14	16.346	10.662
68327	30	23.554	19.728	68399	43	25.336	22.065					68557	17	20.788	4.330	68629*	48	17.374	10.621
68328	28	24.150	19.760	68400*	60	3.865	23.070					68558	19	0.546	5.080	68630	22	17.769	10.420
68329	37	0.756	20.440	68401	15	8.923	23.610					68559	26	0.670	5.370	68631	13	18.584	10.694
68330	18	6.645	20.436	68402	24	9.190	23.135					68560	18	4.090	5.040	68632	23	20.120	10.180
68331	46	8.742	20.572	68403	36	10.684	23.225					68561	27	5.540	5.565	68633*	60	20.660	10.486
68332	28	9.276	20.760	68404	30	11.485	23.646					68562	10	6.752	5.055	68634	13	24.643	10.681
68333	11	10.861	20.256	68405	37	14.155	23.915					68563	18	7.110	5.302	68635	27	0.260	11.008
68334	16	11.416	20.146	68406	17	18.234	23.556					68564	11	9.857	5.685	68636	29	4.458	11.200
68335	26	11.477	20.884	68407*	118	19.465	23.306					68565	10	11.170	5.130	68637	15	4.458	11.150
68336	31	12.256	20.510	68408	23	19.717	23.967					68566	27	15.850	5.179	68638	17	14.320	11.876
68337	34	13.650	20.454	68409	16	21.142	23.407					68567*	40	16.038	5.940	68639	14	16.179	11.850
68338	23	13.936	20.988	68410	26	21.996	23.846					68568	26	16.089	5.948	68640*	50	16.299	11.872
68339	17	14.399	20.294	68411	17	22.205	23.218					68569	23	17.780	5.820	68641	25	16.996	11.620
68340	42	15.778	20.575	68412	39	23.075	23.326					68570	18	20.859	5.850	68642	39	18.655	11.509
68341	20	16.656	20.851	68413	18	23.086	23.289					68571	13	23.904	5.214	68643*	50	20.350	11.952
68342	15	17.812	20.365	68414	20	23.444	23.508					68572	14	24.708	5.301	68644	10	20.456	11.805
68343	38	17.904	20.414	68415	38	24.044	23.150					68573*	39	25.259	5.158	68645	14	20.862	11.825
68344	16	18.647	20.668	68416	58	24.586	23.856					68574	12	25.320	5.660	68646	21	22.850	11.542
68345	26	19.753	20.321	68417	23	25.430	23.814					68575	10	1.384	6.229	68647	14	23.316	11.740
68346	37	21.278	20.176	68418	18	25.730	23.416					68576	28	1.434	6.318	68648*	73	10.000	12.450
68347	14	21.324	20.569	68419	31	0.566	24.354					68577	26	3.778	6.900	68649	11	17.522	12.810
68348	35	22.270	20.380	68420	21	1.874	24.101					68578	30	7.200	6.165	68650	14	18.282	12.434
68349	40	23.096	20.496	68421	17	3.442	24.587					68579	12	7.686	6.752	68651	47	20.053	12.364
68350	37	23.628	20.278	68422	16	9.393	24.482					68580*	29	10.447	6.932	68652	10	22.929	12.024
68351	14	24.728	20.280	68423	22	10.351	24.275					68581	24	13.983	6.517	68653*	38	24.110	12.013
68352*	42	4.246	21.418	68424	30	10.974	24.418					68582	13	14.900	6.286	68654	19	3.216	13.434
68353	16	6.580	21.984	68425	37	11.950	24.496					68583	11	16.132	6.336	68655*	60	6.062	13.144
68354	30	9.506	21.360	68426	39	12.290	24.345					68584	14	16.347	6.894	68656	11	19.904	13.267
68355	28	10.284	21.050	68427	48	16.186	24.860					68585	28	17.042	6.345	68657	11	20.249	13.552
68356	23	10.914	21.910	68428	19	17.060	24.233					68586*	26	19.050	6.323	68658	9	23.926	13.426
68357	23	11.261	21.634	68429	18	17.131	24.685					68587	17	23.150	6.190	68659	33	25.530	13.907
68358*	52	11.624	21.113	68430	20	17.208	24.994					68588	26	24.106	6.487	68660	29	4.397	14.318
68359	14	12.933	21.472	68431	39	17.274	24.464					68589	57	25.425	6.216	68661	27	4.564	14.223
68360	13	13.175	21.396	68432	17	17.306	24.484					68590*	47	2.023	7.810	68662	10	5.408	14.036
68361	14	13.414	21.658	68433	24	18.474	24.590					68591	17	2.136	7.374	68663	22	7.100	14.836
68362	17	14.108	21.265	68434	35	18.528	24.422					68592	15	3.460	7.407	68664	13	7.836	14.762
68363	37	15.000	21.316	68435	27	18.784	24.516					68593	21	8.416	7.550	68665	41	7.894	14.396
68364	13	15.702	21.685	68436	40	19.240	24.242					68594	22	12.943	7.404	68666	11	8.122	14.742
68365	38	16.464	21.704																



68672	9	25 940	14.236	68744	11	25.897	21 056	68906	13	18.140	1.472	68978	35	2.428	3.104
68673	14	0.523	15 098	68745	28	3 302	22.634	68907	16	18.440	1.246	68979	17	3.012	3.890
68674	29	3.052	15.707	68746	26	5.093	22.312	68908	35	19.024	1.054	68980	18	3.882	3.611
68675	28	4.601	15.256	68747	33	5.211	22.096	68909	28	19.484	1.816	68981	18	4.455	3.936
68676	20	5.950	15.874	68748	20	15.140	22.813	68910	31	19.750	1.266	68982	20	4.856	3.945
68677	12	10.187	15.946	68749	15	16.600	22.980	68911	15	20.316	1.460	68983	19	5.314	3.884
68678	36	19.420	15.890	68750	33	17.880	22.493	68912	31	20.470	1.114	68984	14	5.760	3.804
68679	11	20.500	15.186	68751	34	18.108	22.714	68913	20	21.316	1.244	68985	18	7.537	3.704
68680	9	11.536	16.798	68752	29	18.413	22.472	68914	33	21.320	1.135	68986	39	10.558	3.782
68681	9	18.460	16.426	68753	10	20.765	22.380	68915	25	22.074	1.116	68987	19	10.641	3.591
68682	18	20.402	16.320	68754	15	21.265	22.284	68916	22	22.684	1.124	68988	34	10.819	3.064
68683	14	23.032	16.750	68755	13	24.928	22.479	68917	18	22.995	1.246	68989	30	10.826	3.400
68684	21	24.074	16.476	68756	16	25.270	22.479	68918	39	23.046	1.964	68990	21	11.614	3.366
68685	15	24.450	16.360	68757	30	25.350	22.904	68919	16	24.974	1.946	68991	14	11.678	3.428
68686	14	24.450	16.098	68758	17	0.222	23 065	68920	38	25.014	1.092	68992	21	12.778	3.500
68687	28	4 900	17.206	68759	22	1.056	23 920	68921	40	25.580	1.326	68993	19	13.005	3.936
68688	13	5.834	17.280	68760	11	2.024	23.732	68922	21	25.626	1.547	68994	21	13.844	3.369
68689	23	7 860	17.776	68761	26	6.586	23.517	68923	30	25.788	1.352	68995	16	13.964	3.656
68690	28	8.997	17.630	68762	17	7.466	23.144	68924	15	1.620	2.334	68996	18	14.094	3.595
68691	13	15.070	17.551	68763	28	13.840	23.773	68925	17	2.491	2.374	68997	23	15.300	3.354
68692	24	6.528	18.976	68764	43	13.882	23.940	68926	28	3.194	2.942	68998	22	15.894	3.164
68693	50	8.438	18.102	68765	10	14.737	23.093	68927	20	3.244	2.540	68999	14	16.556	3.438
68694	14	13.700	18.000	68766	29	16.506	23.618	68928	38	3.440	2.296	69000	13	16.660	3.804
68695	80	14.665	18.583	68767	11	18.182	23.700	68929	22	4.166	2.964	69001	20	17.036	3.864
68696	12	15.310	18.324	68768	12	18.942	23.800	68930	16	5.100	2.068	69002	19	17.092	3.614
68697	28	15.600	18.466	68769	32	20.808	23.340	68931	24	5.584	2.624	69003	19	17.173	3.844
68698	10	16.100	18.530	68770	14	21.760	23.240	68932	25	5.870	2.815	69004	18	17.312	3.126
68699	10	19.721	18.105	68771	28	22.330	23.600	68933	28	6.074	2.018	69005	13	18.342	3.582
68700	14	21.034	18.898	68772	45	22.574	23.716	68934	21	6.145	2.726	69006	18	18.449	3.391
68701	9	21.258	18.700	68773	25	22.861	23.506	68935	25	6.230	2.718	69007	14	18.815	3.750
68702	18	21.734	18.240	68774	25	25.822	23.927	68936	21	6.516	2.986	69008	12	19.608	3.377
68703	37	22.544	18.406	68775	41	2.572	24.432	68937	19	7.130	2.200	69009	25	20.934	3.406
68704	31	23.250	18.859	68776	9	3.418	24.379	68938	14	7.298	2.855	69010	26	21.269	3.960
68705	56	24.324	18.050	68777	16	9.544	24.200	68939	20	7.774	2.355	69011	26	22.560	3.734
68706	12	0.086	19.549	68778	10	13.364	24.089	68940	38	7.912	2.414	69012	17	23.452	3.786
68707	10	0.510	19.025	68779	16	13.486	24.800	68941	17	8.479	2.686	69013	12	23.583	3.274
68708	20	5.150	19.494	68780	10	13.835	24.875	68942	14	9.355	2.537	69014	30	23.886	3.427
68709	14	5.610	19.150	68781	30	14.671	24.185	68943	11	10.217	2.513	69015	12	24.078	3.232
68710	16	7.545	19.560	68782	28	14.980	24.360	68944	13	12.018	2.228	69016	22	24.300	3.902
68711	11	8.044	19.384	68783	25	15.248	24.218	68945	19	12.090	2.090	69017	24	24.428	3.230
68712	29	12.370	19.036	68784	42	16.194	24.818	68946	12	12.096	2.079	69018	15	24.750	3.760
68713	25	13.504	19.116	68785	24	19.508	24.148	68947	19	12.814	2.026	69019	26	24.950	3.706
68714	20	19.910	19.590	68786	8	23.698	24.518	68948	34	13.779	2.622	69020	20	25.816	3.111
68715	41	22.550	19.152	68787	31	24.096	24.100	68949	18	14.286	2.306	69021	15	0.382	4.655
68716	32	24.175	19.468	68788	10	24.739	24.056	68950	17	14.934	2.000	69022	17	1.590	4.020
68717	13	0.219	20.985	68789	35	1.434	25.373	68951	20	15.520	2.405	69023	12	2.030	4.712
68718	15	1.576	20.866	68790	15	2.008	25.854	68952	20	15.598	2.662	69024	39	4.132	4.929
68719	27	9.244	20.496	68791	21	4.497	25.215	68953	16	15.834	2.214	69025	35	4.561	4.838
68720	59	22.150	20.504	68792	28	5.212	25.540	68954	18	15.974	2.636	69026	14	5.114	4.542
68721	44	24.739	20.490	68793	28	5.658	25.940	68955	30	15.996	2.261	69027	18	5.524	4.306
68722	32	25.147	20.410	68794	12	5.720	25.100	68956	22	16.206	2.650	69028	20	5.640	4.205
68723	10	25.978	20.128	68795	10	9.034	25.039	68957	40	16.410	2.902	69029	48	5.648	4.974
68724	29	1.044	21.089	68796	25	9.770	25.427	68958	15	16.726	2.095	69030	22	6.276	4.304
68725	40	4.017	21.812	68797	19	10.274	25.890	68959	28	17.352	2.040	69031	30	7.314	4.894
68726	14	4.458	21.450	68798	15	10.752	25.108	68960	15	17.526	2.770	69032	18	7.673	4.464
68727	29	4.871	21.074	68799	19	11.230	25.238	68961	19	17.676	2.334	69033	12	8.941	4.316
68728	34	7.772	21.240	68800	80	11.931	25.935	68962	28	17.775	2.104	69034	19	8.998	4.786
68729	13	9.650	21.933	68801	10	12.434	25.816	68963	19	18.092	2.165	69035	19	9.012	4.448
68730	43	13.406	21.591	68802	16	12.660	25.550	68964	39	18.230	2.866	69036	16	11.145	4.800
68731	27	14.230	21.798	68803	35	14.817	25.410	68965	18	18.304	2.986	69037	21	11.213	4.906
68732	16	14.540	21.350	68804	31	16.960	25.240	68966	17	18.925	2.555	69038	17	11.840	4.438
68733	15	14.675	21.392	68805	42	19.027	25.074	68967	27	19.738	2.926	69039	14	12.240	4.212
68734	13	16.150	21.786	68806											



69050	23	16.910	4.212	69122	27	19.796	5.116	69194	32	25.614	6.461	69266	14	23.740	8.105	69338	40	11.874	10.610
69051	20	17.095	4.068	69123	30	20.016	5.224	69195	21	0.328	7.562	69267*	62	23.994	8.600	69339	14	12.894	10.814
69052	14	17.726	4.311	69124	28	20.444	5.582	69196	19	0.430	7.724	69268	14	24.537	8.798	69340	16	13.000	10.555
69053	13	17.742	4.736	69125	38	20.450	5.571	69197	14	1.126	7.445	69269	24	24.596	8.091	69341	20	13.135	10.304
69054	17	17.956	4.229	69126	33	20.890	5.006	69198	18	1.576	7.022	69270	28	25.280	8.596	69342	26	13.651	10.798
69055*	40	17.986	4.785	69127	28	21.284	5.686	69199	40	1.664	7.392	69271	15	25.294	8.238	69343	17	15.270	10.345
69056	14	17.998	4.414	69128	30	21.310	5.692	69200	14	3.660	7.336	69272	18	0.754	9.234	69344	24	15.626	10.995
69057	18	18.386	4.279	69129	23	21.340	5.040	69201	14	4.084	7.335	69273	37	0.830	9.049	69345	17	15.766	10.084
69058	21	18.508	4.085	69130	18	21.473	5.730	69202	15	4.565	7.414	69274	15	1.974	9.364	69346	22	16.976	10.315
69059	18	20.235	4.618	69131	58	21.546	5.722	69203	17	4.810	7.094	69275	16	2.246	9.236	69347	23	17.126	10.198
69060	24	20.366	4.200	69132	44	21.556	5.974	69204	39	5.568	7.294	69276	20	4.938	9.222	69348	21	17.438	10.552
69061	23	20.455	4.746	69133	20	21.582	5.506	69205	14	6.409	7.254	69277	41	5.462	9.022	69349	22	17.540	10.556
69062	13	20.910	4.521	69134	21	21.979	5.491	69206	17	6.904	7.005	69278	35	6.210	9.774	69350	14	18.084	10.205
69063	25	22.115	4.868	69135	15	22.950	5.030	69207	30	8.206	7.631	69279	31	7.178	9.242	69351	21	19.070	10.634
69064	28	22.936	4.706	69136	17	23.342	5.965	69208	13	8.250	7.278	69280	15	7.225	9.388	69352	21	19.180	10.702
69065	40	23.978	4.473	69137	24	23.712	5.880	69209	18	8.826	7.684	69281	16	8.120	9.899	69353	40	19.364	10.502
69066	21	24.072	4.716	69138	24	23.750	5.798	69210	19	9.568	7.505	69282	39	9.341	9.724	69354	15	20.508	10.469
69067	17	24.450	4.420	69139	28	24.373	5.978	69211	20	9.809	7.485	69283	35	9.736	9.426	69355	26	20.591	10.730
69068	40	24.516	4.278	69140	25	24.820	5.876	69212	34	11.265	7.874	69284	14	10.696	9.836	69356	23	20.786	10.194
69069	32	24.644	4.290	69141	39	25.163	5.000	69213	17	12.598	7.544	69285	24	11.338	9.367	69357	23	20.914	10.036
69070	35	24.880	4.134	69142	30	25.484	5.644	69214	26	12.894	7.450	69286	23	12.638	9.198	69358	23	21.062	10.263
69071	24	24.900	4.748	69143	15	25.783	5.058	69215	23	13.094	7.692	69287	18	12.700	9.850	69359	18	21.384	10.494
69072	42	25.284	4.455	69144	13	0.926	6.112	69216	21	14.156	7.866	69288	15	12.856	9.034	69360	35	22.094	10.020
69073	28	25.495	4.224	69145	24	0.954	6.174	69217	12	14.900	7.452	69289	20	13.874	9.524	69361	18	23.778	10.809
69074	42	25.536	4.100	69146	33	1.911	6.164	69218	20	15.638	7.776	69290	19	14.126	9.682	69362	31	24.010	10.953
69075	16	25.539	4.345	69147*	74	3.224	6.184	69219	26	16.533	7.105	69291	14	14.510	9.085	69363	38	25.232	10.691
69076	13	25.660	4.953	69148	15	5.291	6.556	69220	24	17.184	7.122	69292	12	15.986	9.949	69364	19	25.496	10.522
69077	23	1.702	5.194	69149	12	5.326	6.706	69221	16	17.619	7.822	69293	23	16.126	9.100	69365	15	0.217	11.575
69078	25	2.506	5.276	69150	35	6.308	6.224	69222*	58	17.846	7.611	69294	38	16.504	9.303	69366	21	0.606	11.840
69079*	42	3.055	5.132	69151	17	6.500	6.305	69223	16	17.936	7.830	69295*	79	16.617	9.242	69367	26	0.684	11.526
69080	21	3.120	5.634	69152	23	6.896	6.278	69224	20	18.350	7.037	69296	22	17.431	9.484	69368	22	1.154	11.724
69081	17	3.147	5.216	69153	26	7.140	6.748	69225	14	18.670	7.164	69297	38	17.462	9.056	69369	14	1.709	11.719
69082	26	4.056	5.536	69154	17	8.360	6.350	69226	26	19.208	7.116	69298	12	18.466	9.160	69370	15	1.924	11.950
69083	20	4.124	5.235	69155	13	8.750	6.165	69227	22	20.068	7.961	69299	48	18.875	9.036	69371*	42	1.948	11.990
69084	30	5.220	5.250	69156	20	9.068	6.915	69228	29	20.125	7.496	69300	26	19.232	9.747	69372	15	3.730	11.774
69085*	45	6.047	5.806	69157	22	9.835	6.114	69229*	66	20.670	7.311	69301	25	19.444	9.932	69373	57	4.330	11.736
69086	24	6.206	5.420	69158	16	10.101	6.790	69230	14	21.152	7.555	69302	34	19.665	9.942	69374	15	4.864	11.566
69087	16	6.342	5.993	69159	21	10.464	6.202	69231	18	21.214	7.700	69303	18	20.151	9.725	69375	33	5.226	11.635
69088	30	6.531	5.030	69160	38	10.564	6.312	69232	38	21.806	7.035	69304	38	20.252	9.317	69376	15	5.762	11.812
69089	14	6.655	5.442	69161	18	11.326	6.538	69233	14	21.842	7.507	69305	18	21.256	9.546	69377	16	5.961	11.184
69090	12	9.448	5.682	69162	17	11.686	6.504	69234	18	24.350	7.832	69306	22	21.744	9.416	69378	15	7.716	11.700
69091	38	10.228	5.324	69163	23	11.768	6.728	69235	16	1.355	8.280	69307	21	22.528	9.982	69379	13	8.670	11.180
69092	12	11.490	5.822	69164	22	12.201	6.694	69236	37	2.370	8.075	69308	17	23.168	9.723	69380*	80	9.616	11.635
69093	21	11.691	5.709	69165*	31	13.306	6.274	69237	19	4.244	8.204	69309	19	23.236	9.097	69381	12	10.216	11.626
69094	12	12.250	5.274	69166	20	13.618	6.844	69238	18	5.254	8.609	69310	18	23.264	9.976	69382	55	10.306	11.874
69095	18	12.850	5.394	69167	14	14.527	6.686	69239	20	5.328	8.876	69311	21	23.624	9.252	69383	11	10.585	11.678
69096	15	13.710	5.224	69168	18	14.733	6.875	69240	38	5.604	8.342	69312	17	24.034	9.364	69384	16	11.040	11.027
69097	12	13.744	5.710	69169	16	14.916	6.285	69241	13	5.924	8.838	69313	13	24.300	9.737	69385	23	11.325	11.384
69098	30	14.360	5.036	69170	19	15.001	6.176	69242	20	6.417	8.134	69314	17	24.425	9.410	69386	37	11.722	11.598
69099	11	14.400	5.842	69171	16	15.600	6.772	69243	23	6.724	8.335	69315	22	24.454	9.108	69387	17	12.174	11.206
69100	15	14.456	5.276	69172	24	16.469	6.629	69244	32	7.494	8.931	69316	20	24.965	9.929	69388	22	12.534	11.951
69101	28	14.557	5.436	69173	21	17.061	6.109	69245	20	9.012	8.635	69317	38	25.826	9.529	69389	16	13.136	11.196
69102	21	14.588	5.664	69174	41	17.473	6.360	69246	13	9.176	8.866	69318	17	0.048	10.672	69390	17	13.284	11.999
69103	15	14.866	5.130	69175	15	17.524	6.220	69247	22	9.278	8.096	69319	14	0.272	10.856	69391*	53	13.964	11.438
69104	11	15.204	5.347	69176	17	18.004	6.101	69248	17	9.450	8.978	69320	11	0.850	10.790	69392	18	14.236	11.593
69105	16	15.314	5.010	69177	13	18.946	6.564	69249	27	9.547	8.084	69321	11	0.926	10.953	69393	25	15.428	11.357
69106	16	15.554	5.456	69178	26	19.048	6.963	69250*	39	9.890	8.210	69322	14	1.602	10.184	69394	16	15.543	11.144
69107	17	15.674	5.175	69179	17	19.390	6.494	69251	17	11.896	8.070	69323	23	2.474	10.656	69395*	78	15.774	11.254
69108	17	16.165	5.916	69180	39	19.476	6.146	69252	12	13.474	8.374	69324	14	2.656	10.234	69396	29	16.834	11.330
69109	23	16.235	5.816	69181*	48	20.120	6.224	69253	16	13.678	8.826	69325	18	5.006	10.885	69397	42	17.015	11.106
69110	18	16.256	5.242	69182	23	20.352	6.416	69254	20	14.273	8.734	69326	16	5.525	10.913	69398	23	17.594	11.286
69111	18	16.501	5.483	69183	18	21.100	6.176	69255	12	14.607	8.100	69327	37	6.180	10.382	69399	14	18.411	11.338
69112	20	16.538	5.414	69184	12	21.348	6.514	69256	16	15.880	8.848	69328	16	6.565	10.730	69400	12</		







70130	21	13.314	23.924	70202	22	21.351	24.945	70274	40	21.656	25.388	70334	39	20.022	0.590	70406	34	11.330	2.364
70131	20	14.276	23.086	70203	30	21.730	24.218	70275	20	22.708	25.894	70335*	72	20.510	0.182	70407	37	14.044	2.316
70132	16	14.498	23.972	70204	17	21.760	24.214	70276	17	22.724	25.962	70336	16	20.828	0.526	70408	50	14.884	2.091
70133	32	14.979	23.487	70205	18	21.786	24.670	70277	24	22.785	25.894	70337	48	21.251	0.033	70409	39	15.530	2.662
70134	16	15.044	23.284	70206*	58	21.865	24.946	70278	21	22.836	25.138	70338	36	21.265	0.226	70410	39	16.350	2.850
70135	13	15.450	23.324	70207	39	22.535	24.506	70279	17	23.171	25.345	70339	40	21.520	0.454	70411	33	18.296	2.735
70136	24	15.642	23.565	70208	23	23.085	24.872	70280	26	23.423	25.094	70340	12	21.670	0.588	70412	16	19.844	2.181
70137	20	15.715	23.476	70209	19	23.392	24.066	70281	18	23.686	25.224	70341	46	22.115	0.506	70413	23	20.413	2.766
70138	23	16.980	23.018	70210	18	23.577	24.738	70282	15	24.324	25.611	70342	27	23.312	0.558	70414	18	20.896	2.486
70139	21	17.252	23.166	70211	21	23.674	24.786	70283	22	24.585	25.943	70343	26	0.299	1.250	70415	17	20.945	2.584
70140	23	17.832	23.128	70212	24	23.682	24.774	70284	21	24.714	25.000	70344	28	0.614	1.365	70416	15	21.250	2.873
70141	15	18.077	23.876	70213	20	23.944	24.686	70285	42	24.765	25.396	70345	46	2.626	1.176	70417	35	21.300	2.700
70142	18	18.106	23.922	70214	14	24.377	24.450	70286	15	25.050	25.263	70346	43	3.198	1.404	70418	33	22.406	2.990
70143	19	18.484	23.636	70215	30	25.079	24.882	70287	38	25.312	25.692	70347	34	3.250	1.622	70419	38	22.858	2.226
70144	24	19.438	23.594	70216	58	25.636	24.820	70288	21	25.828	25.446	70348	37	3.406	1.424	70420	14	23.030	2.893
70145	18	19.920	23.995	70217	59	25.834	24.586					70349	39	3.715	1.216	70421	20	23.989	2.117
70146	21	19.964	23.810	70218	13	0.684	25.170					70350	23	4.174	1.727	70422	37	25.018	2.186
70147	17	20.270	23.694	70219	26	0.928	25.164					70351	26	4.258	1.500	70423	15	25.251	2.181
70148	24	20.344	23.408	70220	15	0.950	25.628					70352	18	5.044	1.894	70424	17	25.488	2.916
70149	23	20.474	23.226	70221	35	1.583	25.009					70353	38	5.308	1.026	70425	31	0.222	3.860
70150	14	21.510	23.716	70222	37	1.825	25.676					70354	38	6.350	1.284	70426	12	1.114	3.902
70151	24	21.560	23.144	70223	60	1.982	25.750					70355	52	6.376	1.212	70427	39	1.540	3.534
70152	26	22.518	23.808	70224	26	2.690	25.700					70356	62	6.920	1.167	70428	15	1.734	3.336
70153	14	22.870	23.200	70225	21	3.398	25.938					70357	18	6.995	1.082	70429	34	2.080	3.326
70154	16	23.540	23.555	70226	23	3.696	25.068					70358	22	7.015	1.328	70430	18	2.414	3.848
70155	18	23.609	23.780	70227	22	3.698	25.094					70359	42	7.420	1.461	70431	38	2.610	3.794
70156	14	23.770	23.100	70228	22	4.004	25.074					70360	28	7.824	1.614	70432	24	3.469	3.184
70157	34	25.478	23.772	70229	42	4.172	25.346					70361	37	9.431	1.569	70433	14	3.764	3.800
70158	23	25.774	23.934	70230	24	5.538	25.529					70362	39	9.788	1.024	70434	18	6.050	3.814
70159	22	1.604	24.496	70231	19	5.656	25.554					70363	21	12.090	1.892	70435	78	6.174	3.126
70160	39	2.000	24.078	70232	52	5.850	25.534					70364	34	13.727	1.704	70436	18	6.322	3.254
70161	18	2.645	24.026	70233	38	5.872	25.468					70365	23	14.144	1.006	70437	38	6.374	3.434
70162	14	2.884	24.810	70234	22	5.999	25.366					70366	16	14.250	1.144	70438	39	7.086	3.976
70163	17	3.547	24.626	70235	70	6.196	25.748					70367	54	14.394	1.525	70439	39	7.469	3.506
70164*	53	3.984	24.924	70236	57	6.276	25.284					70368	39	15.700	1.104	70440	30	8.008	3.266
70165	52	5.434	24.286	70237	20	7.318	25.644					70369	44	16.306	1.044	70441	28	8.142	3.288
70166	13	5.624	24.684	70238	34	7.440	25.726					70370	39	16.391	1.294	70442	26	8.152	3.186
70167	17	5.745	24.348	70239	34	7.750	25.284					70371	42	17.186	1.554	70443	40	8.185	3.024
70168	29	6.418	24.756	70240	16	8.021	25.026					70372	45	20.300	1.758	70444	29	8.442	3.616
70169	23	7.600	24.962	70241	15	8.432	25.866					70373	20	20.502	1.806	70445	18	9.192	3.374
70170	28	7.716	24.786	70242	14	11.830	25.604					70374	32	20.541	1.816	70446	28	9.419	3.614
70171	13	8.082	24.538	70243	24	12.080	25.320					70375	14	20.563	1.458	70447	56	9.756	3.986
70172	16	8.429	24.831	70244	46	12.126	25.850					70376	42	20.814	1.750	70448	17	10.064	3.660
70173	15	8.590	24.926	70245*	58	12.136	25.062					70377	13	21.818	1.724	70449	13	10.752	3.384
70174	26	8.864	24.280	70246	24	13.050	25.181					70378*	60	22.511	1.614	70450	18	11.030	3.879
70175	18	9.104	24.274	70247	40	13.824	25.482					70379	14	22.649	1.730	70451	17	11.307	3.836
70176	28	9.600	24.144	70248	15	14.115	25.632					70380	39	22.965	1.574	70452	48	12.484	3.842
70177	12	9.814	24.681	70249	16	14.884	25.136					70381	35	23.038	1.285	70453	18	12.487	3.267
70178	23	10.262	24.095	70250	40	15.117	25.904					70382*	68	24.603	1.804	70454	40	13.230	3.764
70179	15	10.554	24.332	70251	20	15.324	25.932					70383	17	25.454	1.984	70455	25	13.848	3.856
70180	28	11.530	24.725	70252	24	15.392	25.304					70384	40	0.674	2.085	70456	37	14.485	3.044
70181	13	13.166	24.967	70253	14	15.578	25.401					70385	21	1.756	2.970	70457	11	15.905	3.676
70182	14	13.568	24.714	70254	23	15.833	25.015					70386	23	2.604	2.035	70458	15	16.210	3.114
70183	24	14.324	24.985	70255	38	16.161	25.273					70387	18	3.100	2.175	70459	18	16.294	3.824
70184	23	14.348	24.067	70256	37	16.505	25.908					70388	27	4.050	2.955	70460	44	17.064	3.156
70185	20	14.488	24.504	70257	18	16.546	25.403					70389	18	4.066	2.396	70461	23	17.362	3.846
70186	23	15.356	24.840	70258	23	16.578	25.408					70390	39	4.128	2.284	70462	36	17.540	3.514
70187	14	15.945	24.832	70259	32	17.252	25.188					70391	39	4.156	2.794	70463	40	17.834	3.872
70188	25	16.240	24.940	70260	50	17.344	25.666					70392	39	4.580	2.764	70464	16	18.056	3.436
70189	18	16.433	24.926	70261	31	17.402	25.102					70393	21	5.840	2.092	70465	18	18.680	3.070
70190	14	16.458	24.336	70262	26	17.556	25.452					70394	46	5.950	2.056	70466	42	18.767	3.304
70191	23	17.500	24.345	70263	38	18.874	25.980					70395	35	6.276	2.574	70467	18	19.066	3.234
70192	24	17.725	24.254	70264	32	19.100	25.558					70396	18	7.900	2.686	70468	15	19.516	3.774
70193	12	17.950	24.040	70265	18	19.242	25.840					70397	18	7.908	2.654	70469*	76	19.606	3.536
70194	36	18.758	24.834	70266	15	19.274	25.854					70398	17	8.570	2.388	70470	34	19.817	3.929
70195	15	18.923	24.765	70267	12	19.475	25.267					70399	25	8.706	2.186	70471	39	19.876	3.064
70196	18	19.726	24.604	70268	17	20.210	25.334					70400	42	8.881	2.826	70472	30	20.426	3.746
70197	26	19.729	24.885	70269	38	20.276	25.842					70401	30	9.171	2.879	70473	48	21.090	3.324
70198	28	20																	



70478	14	25.277	3.515	70550	30	9.756	5.014	70622	38	16.210	6.766	70694	17	10.348	8.205	70766	20	3.998	10.144
70479	38	25.992	3.331	70551	18	10.000	5.056	70623	15	16.866	6.250	70695*	66	11.354	8.594	70767	14	4.015	10.605
70480	38	0.615	4.830	70552	36	10.004	5.126	70624	21	17.388	6.316	70696	18	11.358	8.709	70768	17	4.226	10.234
70481	55	1.650	4.576	70553	23	10.105	5.666	70625	30	17.511	6.286	70697	12	11.748	8.524	70769	18	4.385	10.400
70482	30	1.752	4.816	70554	42	10.480	5.566	70626	20	17.692	6.815	70698	36	11.753	8.554	70770	57	4.652	10.107
70483	48	2.186	4.373	70555	18	10.558	5.071	70627	20	17.880	6.411	70699	30	11.764	8.444	70771	15	4.778	10.768
70484	39	2.316	4.381	70556	37	10.710	5.419	70628	21	18.410	6.986	70700*	64	12.273	8.888	70772	32	5.052	10.766
70485	39	2.546	4.224	70557	30	10.744	5.466	70629	62	18.976	6.966	70701	12	13.680	8.502	70773	15	6.134	10.921
70486	38	2.579	4.835	70558	32	11.019	5.338	70630	40	20.184	6.332	70702	21	14.652	8.150	70774	26	6.134	10.670
70487	54	2.958	4.536	70559	17	12.314	5.094	70631	28	20.618	6.832	70703	32	16.722	8.934	70775	28	6.144	10.784
70488	38	3.166	4.300	70560	15	12.561	5.197	70632	32	20.972	6.576	70704	34	17.084	8.772	70776	15	6.282	10.865
70489	56	3.203	4.175	70561	38	13.182	5.285	70633	31	21.684	6.484	70705	21	17.342	8.798	70777	11	6.598	10.748
70490	14	3.214	4.423	70562	30	13.800	5.436	70634	14	23.198	6.128	70706	40	18.080	8.800	70778	12	6.704	10.940
70491	25	4.730	4.764	70563	38	13.910	5.851	70635	39	24.977	6.205	70707	16	18.444	8.640	70779	34	6.800	10.191
70492	34	5.894	4.674	70564	12	14.917	5.272	70636	41	25.125	6.774	70708	17	20.518	8.648	70780	38	6.928	10.694
70493	16	6.815	4.098	70565	17	15.744	5.824	70637	28	25.154	6.537	70709	28	21.966	8.104	70781	16	7.358	10.234
70494	39	7.774	4.009	70566	13	16.272	5.182	70638	15	25.192	6.440	70710	36	22.366	8.908	70782	42	8.396	10.114
70495	23	8.012	4.518	70567	38	16.964	5.636	70639	28	25.508	6.168	70711	42	23.839	8.908	70783	18	8.950	10.880
70496	23	8.334	4.984	70568	40	17.444	5.750	70640	39	25.693	6.206	70712	18	24.124	8.526	70784	16	9.268	10.850
70497	38	8.598	4.688	70569	35	18.708	5.277	70641	17	0.006	7.134	70713	18	24.964	8.010	70785	16	9.416	10.876
70498	37	8.738	4.272	70570	52	18.806	5.260	70642	12	0.669	7.458	70714	46	25.476	8.078	70786	40	10.194	10.767
70499	15	9.524	4.094	70571	37	18.930	5.824	70643	17	2.086	7.928	70715	26	0.945	9.844	70787	17	10.278	10.856
70500	11	10.071	4.319	70572	42	19.042	5.556	70644	35	4.210	7.906	70716	23	0.998	9.215	70788	31	10.724	10.856
70501	17	10.094	4.734	70573	31	20.602	5.920	70645	36	4.306	7.394	70717	31	1.388	9.362	70789	38	11.635	10.622
70502	16	10.122	4.212	70574	24	22.094	5.644	70646	28	4.856	7.466	70718	24	1.798	9.466	70790	40	11.725	10.009
70503	33	10.146	4.786	70575	14	22.550	5.310	70647	30	5.631	7.866	70719	15	2.076	9.834	70791	34	12.513	10.426
70504	40	10.284	4.441	70576	35	23.992	5.356	70648	38	7.028	7.746	70720	24	2.190	9.506	70792	32	12.548	10.935
70505	20	10.589	4.232	70577	55	24.904	5.850	70649	24	7.273	7.236	70721	24	2.214	9.204	70793	14	12.792	10.964
70506	30	10.680	4.366	70578	44	25.742	5.458	70650	26	7.289	7.928	70722	42	3.594	9.600	70794	33	12.834	10.566
70507	37	10.686	4.426	70579	38	0.662	6.705	70651	33	8.556	7.256	70723	15	4.675	9.764	70795	18	13.158	10.989
70508	17	11.194	4.115	70580	40	1.004	6.816	70652	12	8.647	7.532	70724*	179	4.885	9.584	70796	20	14.028	10.296
70509	18	11.588	4.980	70581	15	1.045	6.078	70653*	96	8.667	7.402	70725	14	5.104	9.140	70797	18	15.643	10.556
70510	39	13.506	4.936	70582	32	2.076	6.076	70654	18	9.286	7.364	70726	55	6.109	9.294	70798	38	16.519	10.082
70511	37	14.854	4.919	70583	20	2.102	6.256	70655	53	9.404	7.444	70727	38	6.366	9.756	70799	17	17.435	10.476
70512	31	15.257	4.815	70584	14	2.114	6.213	70656	37	10.200	7.754	70728	23	6.482	9.464	70800	24	17.666	10.475
70513	21	17.172	4.395	70585	14	2.385	6.569	70657	37	10.200	7.344	70729	37	6.505	9.118	70801	17	19.031	10.750
70514	28	17.714	4.920	70586	60	2.928	6.576	70658*	79	11.450	7.975	70730	38	6.828	9.455	70802	32	19.873	10.904
70515	15	18.280	4.765	70587	18	3.148	6.710	70659	38	13.050	7.490	70731	17	7.986	9.326	70803	34	21.326	10.294
70516	38	18.872	4.176	70588	42	3.325	6.536	70660	44	13.224	7.169	70732	16	8.264	9.694	70804	40	21.598	10.920
70517	40	19.512	4.138	70589	38	4.502	6.036	70661	18	13.254	7.906	70733	35	8.420	9.918	70805	34	22.536	10.761
70518	35	20.230	4.048	70590	48	4.574	6.866	70662	23	13.728	7.214	70734	14	8.518	9.526	70806	27	23.056	10.802
70519*	66	21.230	4.390	70591	18	4.922	6.314	70663	16	15.756	7.944	70735	17	10.106	9.276	70807	34	23.760	10.620
70520	36	22.637	4.473	70592	35	5.566	6.336	70664	38	16.214	7.124	70736	20	10.289	9.666	70808	30	24.930	10.502
70521	38	22.640	4.303	70593	35	5.595	6.176	70665	26	16.813	7.218	70737	16	10.996	9.499	70809	17	25.871	10.746
70522	38	23.768	4.736	70594	64	5.760	6.391	70666	11	16.866	7.322	70738	18	12.502	9.325	70810	30	25.887	10.524
70523	57	24.720	4.661	70595	52	6.094	6.786	70667	38	17.150	7.296	70739	35	12.862	9.894	70811	13	0.502	11.915
70524	11	0.636	5.152	70596	38	6.336	6.479	70668	22	17.464	7.064	70740	34	13.456	9.685	70812	37	1.532	11.312
70525	37	1.413	5.990	70597	18	6.546	6.511	70669	18	17.770	7.765	70741	22	13.540	9.586	70813	39	1.805	11.056
70526	34	1.449	5.906	70598	39	6.668	6.158	70670	34	18.386	7.195	70742	38	13.726	9.226	70814	15	1.818	11.036
70527	35	2.521	5.966	70599	35	6.845	6.294	70671	37	19.350	7.248	70743*	55	14.690	9.854	70815	20	2.946	11.206
70528	40	2.848	5.084	70600	37	7.180	6.156	70672	29	23.396	7.926	70744	38	14.964	9.804	70816	21	2.988	11.638
70529	40	3.181	5.722	70601	36	7.413	6.351	70673	33	23.736	7.525	70745	37	15.316	9.494	70817*	70	3.046	11.434
70530	56	3.856	5.454	70602	38	7.738	6.335	70674	39	23.856	7.556	70746	12	15.608	9.964	70818*	77	4.401	11.274
70531	28	4.036	5.986	70603	18	7.945	6.455	70675	40	24.325	7.974	70747	18	17.616	9.846	70819	13	5.025	11.476
70532*	158	4.869	5.571	70604	34	7.998	6.868	70676	13	1.166	8.952	70748	17	17.992	9.306	70820	38	5.056	11.989
70533	55	5.649	5.224	70605	35	8.006	6.482	70677	24	1.224	8.936	70749	24	19.006	9.126	70821	16	5.415	11.110
70534	64	5.948	5.330	70606	16	8.656	6.116	70678	17	1.481	8.214	70750	34	20.831	9.900	70822	13	5.770	11.152
70535	19	5.975	5.422	70607	28	8.764	6.818	70679*	64	1.744	8.704	70751	38	21.434	9.256	70823*	41	5.800	11.674
70536	40	6.229	5.204	70608	17	9.070	6.342	70680	18	2.292	8.886	70752	32	21.755	9.200	70824	20	5.952	11.865
70537	13	6.315	5.540	70609	30	9.080	6.372	70681	38	2.338	8.184	70753	18	22.299	9.450	70825	23	6.354	11.900
70538	38	6.428	5.130	70610	46	9.115	6.804	70682	37	3.031	8.678	70754	18	22.569	9.725	70826	38	6.372	11.064
70539	17	6.462	5.028	70611	39	10.538	6.778	70683	20	4.002	8.332	70755	16	22.931	9.488	70827	15	6.434	11.164
70540	27	6.752	5.057	70612	16	10.542	6.786	70684	28	4.512	8.326	70756*	56	24.370	9.288	70828	11	6.585	11.900
70541	13	6.808	5.6																



70838	15	13.978	11.201	70910	38	4.030	13.808	70982	18	0.396	15.914	71054	16	23.105	16.382	71126	18	15.421	18.666
70839	18	14.261	11.030	70911	14	4.344	13.124	70983	22	0.468	15.686	71055	27	24.276	16.661	71127	32	16.664	18.850
70840	24	15.405	11.344	70912	16	4.624	13.436	70984	12	0.490	15.846	71056	18	0.685	17.818	71128	23	17.653	18.175
70841	44	16.398	11.664	70913	25	5.300	13.066	70985	38	0.604	15.992	71057	17	1.073	17.316	71129*	58	18.500	18.738
70842	34	17.330	11.152	70914	22	5.474	13.296	70986	16	1.281	15.376	71058	28	1.398	17.665	71130*	59	18.818	18.577
70843	17	17.782	11.770	70915	31	5.650	13.234	70987	23	1.758	15.614	71059	38	1.422	17.400	71131	15	19.374	18.875
70844	12	17.836	11.118	70916	38	5.656	13.292	70988	24	1.774	15.051	71060	15	2.195	17.756	71132	17	19.920	18.900
70845	21	18.527	11.285	70917	16	5.748	13.608	70989	14	2.450	15.193	71061	37	2.665	17.708	71133	34	20.480	18.152
70846	42	18.766	11.996	70918	32	5.970	13.226	70990	39	2.956	15.534	71062	32	3.216	17.684	71134	14	21.025	18.933
70847	29	18.836	11.036	70919	30	6.009	13.854	70991	18	3.545	15.936	71063	15	4.323	17.944	71135	15	21.764	18.491
70848	35	20.310	11.564	70920	35	6.235	13.525	70992	16	4.374	15.405	71064	38	4.942	17.511	71136	25	21.946	18.064
70849	14	20.380	11.188	70921	25	7.488	13.646	70993	15	4.376	15.960	71065	32	5.394	17.095	71137	25	22.621	18.838
70850	19	20.866	11.706	70922	38	7.539	13.792	70994	25	7.834	15.226	71066	37	5.749	17.464	71138	17	23.232	18.868
70851	50	21.574	11.895	70923	39	7.745	13.631	70995	16	8.390	15.546	71067	42	6.898	17.196	71139	18	23.454	18.666
70852	25	21.770	11.100	70924	33	9.662	13.288	70996	38	8.658	15.164	71068	12	8.466	17.708	71140	29	24.273	18.683
70853	38	22.244	11.265	70925	31	9.758	13.824	70997	39	10.062	15.712	71069	48	8.515	17.324	71141	35	1.058	19.438
70854	15	23.512	11.532	70926	23	9.877	13.676	70998	37	10.540	15.634	71070	31	9.390	17.122	71142	40	2.622	19.462
70855	37	24.874	11.976	70927	12	10.148	13.206	70999	21	11.078	15.634	71071	14	9.615	17.705	71143	28	2.960	19.126
70856	20	25.308	11.060	70928	44	11.445	13.644	71000	18	11.802	15.713	71072	25	12.370	17.938	71144	23	3.499	19.876
70857	32	1.133	12.562	70929	17	11.472	13.850	71001	39	13.036	15.706	71073	14	12.398	17.774	71145	42	4.667	19.986
70858	37	1.533	12.918	70930	20	11.648	13.636	71002	58	14.747	15.610	71074	16	12.401	17.224	71146	13	4.852	19.896
70859	36	1.705	12.924	70931	21	12.310	13.466	71003	38	18.394	15.456	71075	14	13.449	17.007	71147	36	6.368	19.636
70860	32	1.936	12.716	70932	33	12.638	13.656	71004	37	19.462	15.674	71076	37	13.594	17.376	71148	44	6.955	19.005
70861	12	2.180	12.318	70933	37	12.825	13.304	71005	25	23.598	15.784	71077	39	14.005	17.953	71149	12	8.527	19.530
70862	37	2.372	12.562	70934	17	13.324	13.665	71006	30	24.034	15.451	71078	17	14.608	17.700	71150	32	9.152	19.620
70863	29	3.685	12.834	70935	30	14.759	13.121	71007	21	24.646	15.113	71079	20	16.938	17.700	71151	13	9.579	19.763
70864	32	3.700	12.406	70936	40	15.162	13.228	71008	48	25.340	15.272	71080	10	17.650	17.700	71152	35	9.816	19.048
70865	35	5.438	12.239	70937	16	18.110	13.740	71009	40	25.546	15.254	71081	38	17.759	17.364	71153	28	13.071	19.142
70866	38	5.774	12.234	70938	21	18.208	13.420	71010	34	0.034	16.812	71082	11	18.092	17.179	71154	13	13.177	19.675
70867	46	6.274	12.686	70939	18	18.694	13.550	71011	11	0.431	16.927	71083	39	19.778	17.258	71155	35	13.592	19.484
70868	16	7.132	12.507	70940	12	20.896	13.790	71012	37	0.950	16.466	71084	40	20.368	17.716	71156	42	15.350	19.318
70869	50	7.560	12.284	70941	39	21.042	13.606	71013	20	1.035	16.326	71085	23	20.795	17.653	71157	24	16.072	19.852
70870	39	8.016	12.304	70942	39	22.049	13.404	71014	41	2.237	16.506	71086	21	20.914	17.668	71158	15	16.405	19.879
70871	23	9.324	12.068	70943	11	22.116	13.230	71015	38	2.413	16.336	71087*	48	21.606	17.184	71159	39	17.178	19.576
70872	39	9.676	12.364	70944	17	22.938	13.995	71016	21	2.946	16.676	71088	18	22.026	17.531	71160	48	17.695	19.874
70873	32	10.242	12.194	70945*	57	23.528	13.788	71017	29	3.900	16.192	71089	18	22.058	17.620	71161	30	18.588	19.086
70874	35	10.410	12.432	70946	30	24.872	13.162	71018	15	3.994	16.434	71090	50	23.675	17.292	71162	16	18.897	19.475
70875	38	12.824	12.134	70947	44	25.322	13.786	71019	39	4.380	16.842	71091	16	23.756	17.646	71163	18	19.436	19.534
70876	32	13.760	12.778	70948	40	25.546	13.136	71020	37	4.470	16.126	71092	28	24.351	17.205	71164	20	20.284	19.431
70877	18	13.809	12.985	70949	40	0.872	14.045	71021	18	5.525	16.994	71093	40	24.486	17.376	71165	22	21.028	19.009
70878	18	14.776	12.268	70950	17	0.964	14.394	71022	30	6.226	16.810	71094*	54	24.916	17.200	71166	20	22.125	19.809
70879	37	14.845	12.668	70951	38	1.364	14.494	71023	21	6.618	16.346	71095	17	0.716	18.286	71167	26	22.217	19.985
70880	16	14.845	12.454	70952	35	1.620	14.640	71024	37	6.804	16.534	71096	38	1.858	18.482	71168	18	23.087	19.174
70881	32	16.550	12.940	70953	28	1.934	14.562	71025	17	7.730	16.180	71097	39	2.176	18.262	71169	29	23.304	19.740
70882	32	16.859	12.325	70954	20	2.098	14.526	71026	18	7.894	16.364	71098	16	3.085	18.226	71170	34	23.794	19.064
70883	37	18.525	12.481	70955	38	2.174	14.126	71027	35	8.424	16.366	71099	14	3.101	18.451	71171	15	23.976	19.764
70884	39	19.088	12.375	70956	17	2.884	14.092	71028	22	9.121	16.344	71100	12	3.255	18.530	71172	32	24.232	19.253
70885	50	20.129	12.292	70957	18	3.456	14.050	71029	40	9.898	16.944	71101	27	4.042	18.706	71173	17	24.964	19.956
70886	48	20.423	12.486	70958	34	4.318	14.704	71030	12	10.140	16.268	71102	39	4.140	18.394	71174	13	25.099	19.578
70887	21	22.274	12.314	70959	15	5.536	14.690	71031	25	10.530	16.714	71103	36	4.806	18.536	71175	22	25.196	19.054
70888	17	22.500	12.245	70960	28	6.170	14.165	71032	16	11.671	16.666	71104	17	5.051	18.724	71176	58	25.588	19.698
70889	18	23.492	12.164	70961	14	6.986	14.782	71033	40	11.679	16.610	71105	38	5.066	18.836	71177	28	0.682	20.666
70890	17	23.949	12.099	70962	39	7.331	14.746	71034	37	11.952	16.834	71106	39	5.259	18.400	71178	30	0.856	20.475
70891	27	24.216	12.022	70963	15	8.934	14.724	71035	42	12.286	16.194	71107	16	5.336	18.936	71179	43	2.234	20.300
70892	23	24.814	12.500	70964	17	9.892	14.400	71036	26	15.180	16.956	71108	20	5.472	18.765	71180	13	3.332	20.624
70893*	42	24.966	12.728	70965	40	11.542	14.366	71037	28	15.224	16.314	71109	37	5.575	18.814	71181	37	3.483	20.728
70894	22	25.729	12.466	70966	29	11.782	14.626	71038	21	15.237	16.015	71110	37	6.120	18.936	71182	57	3.614	20.266
70895	34	0.372	13.214	70967	18	13.111	14.982	71039*	60	15.256	16.339	71111	16	7.130	18.465	71183	38	3.696	20.718
70896	15	0.379	13.482	70968	18	15.475	14.208	71040	52	15.658	16.544	71112	18	10.056	18.016	71184	18	3.924	20.506
70897	17	0.441	13.774	70969	18	16.890	14.786	71041	39	15.994	16.444	71113	12	10.264	18.370	71185	32	4.649	20.314
70898	46	0.442	13.178	70970	30	18.087	14.132	71042	30	16.122	16.256	71114	16	10.298	18.472	71186	18	5.123	20.040
70899*	57	0.794	13.403	70971	21	18.350	14.974	71043	38	16.382	16.200	71115	16	10.430	18.696	71187	15		



71198	12	14.478	20.769	71270	38	1.410	22.724	71342	18	14.720	23.665	71414	17	15.499	24.430
71199	34	17.541	20.764	71271	15	2.072	22.196	71343	17	15.040	23.090	71415	17	16.096	24.174
71200	15	17.902	20.777	71272	34	2.650	22.556	71344	10	15.454	23.606	71416	33	16.304	24.716
71201	36	18.834	20.592	71273	12	3.184	22.762	71345	32	15.494	23.454	71417	16	16.884	24.465
71202	17	19.576	20.185	71274	48	3.458	22.150	71346	39	15.544	23.894	71418	40	16.975	24.678
71203	15	20.312	20.882	71275	64	3.506	22.794	71347	14	15.946	23.635	71419	33	17.480	24.460
71204	14	20.427	20.088	71276	21	3.975	22.486	71348	41	16.854	23.992	71420	24	17.706	24.194
71205	37	20.480	20.428	71277	14	4.053	22.206	71349	21	18.846	23.874	71421	36	17.860	24.476
71206*	48	21.497	20.433	71278	17	4.290	22.706	71350	38	18.958	23.974	71422	12	18.370	24.806
71207	37	21.664	20.526	71279	38	4.456	22.844	71351	36	19.186	23.404	71423	38	18.604	24.412
71208	16	22.250	20.686	71280	33	4.570	22.216	71352	32	19.386	23.894	71424	39	19.570	24.132
71209	30	22.292	20.954	71281	16	5.056	22.604	71353	34	20.246	23.616	71425	26	19.697	24.956
71210	27	23.424	20.574	71282	38	6.549	22.049	71354	25	20.247	23.676	71426	30	19.751	24.652
71211	39	25.056	20.688	71283	14	7.380	22.524	71355	21	20.390	23.725	71427	55	20.148	24.924
71212	32	0.110	21.802	71284	40	7.624	22.736	71356	17	20.432	23.770	71428	39	20.216	24.910
71213	17	0.854	21.616	71285	36	8.241	22.499	71357	36	20.436	23.014	71429	23	20.232	24.411
71214	19	1.015	21.945	71286	36	8.854	22.532	71358	19	20.543	23.805	71430	24	20.698	24.444
71215	18	1.245	21.967	71287	14	9.228	22.010	71359	46	21.202	23.746	71431	25	21.984	24.810
71216	38	2.130	21.184	71288	36	9.856	22.788	71360	32	21.392	23.882	71432	20	23.282	24.015
71217*	96	2.340	21.214	71289	39	10.350	22.351	71361	16	21.627	23.094	71433*	78	23.378	24.852
71218	34	2.753	21.256	71290	10	10.538	22.740	71362	20	23.686	23.702	71434	48	24.712	24.896
71219	30	3.326	21.856	71291	17	11.692	22.580	71363	30	24.334	23.224	71435	32	24.752	24.800
71220*	57	3.456	21.408	71292	17	11.765	22.332	71364	21	24.482	23.765	71436	12	24.763	24.851
71221	11	3.601	21.392	71293	37	12.100	22.453	71365	23	24.671	23.509	71437	40	24.800	24.850
71222	30	4.268	21.447	71294	20	12.194	22.560	71366	17	24.745	23.922	71438	23	24.978	24.165
71223	27	5.522	21.036	71295	42	12.650	22.555	71367	37	24.944	23.062	71439	46	25.164	24.594
71224	11	6.089	21.764	71296	28	15.575	22.666	71368	25	25.838	23.164	71440	16	25.948	24.834
71225	12	6.420	21.987	71297	15	15.619	22.127	71369	17	0.060	24.856	71441	12	1.235	25.466
71226	31	7.518	21.662	71298	38	16.364	22.644	71370	48	0.578	24.636	71442	27	1.480	25.204
71227	34	7.586	21.444	71299	21	16.580	22.058	71371	32	1.138	24.990	71443	26	2.768	25.090
71228	34	7.632	21.464	71300	46	17.311	22.894	71372	32	1.429	24.180	71444	12	2.782	25.168
71229	40	7.716	21.512	71301	18	19.268	22.700	71373	18	1.628	24.846	71445	52	2.824	25.482
71230	19	7.888	21.554	71302	11	19.870	22.991	71374	36	1.728	24.891	71446	40	3.378	25.768
71231	15	8.376	21.545	71303	14	20.040	22.039	71375	16	1.760	24.195	71447	16	3.470	25.702
71232	44	8.550	21.745	71304	50	21.260	22.349	71376	13	1.997	24.792	71448	27	3.894	25.515
71233	38	8.894	21.366	71305	34	22.100	22.144	71377	14	2.426	24.550	71449	40	4.976	25.846
71234	34	10.029	21.661	71306	14	22.670	22.517	71378	16	2.714	24.403	71450	23	5.075	25.925
71235	37	10.700	21.410	71307	36	23.716	22.566	71379	38	3.134	24.964	71451	46	5.184	25.867
71236	17	10.986	21.544	71308	21	24.106	22.106	71380*	59	3.682	24.890	71452	14	5.200	25.940
71237	24	11.586	21.444	71309	35	24.906	22.540	71381	24	3.806	24.004	71453	18	6.106	25.184
71238	28	11.632	21.318	71310	27	25.558	22.636	71382*	61	3.876	24.654	71454	26	7.035	25.271
71239	15	12.610	21.650	71311	32	0.551	23.936	71383	21	4.279	24.464	71455	37	8.296	25.867
71240	32	13.308	21.964	71312	17	1.570	23.666	71384	17	5.074	24.571	71456	26	8.551	25.385
71241	39	13.498	21.228	71313	21	1.642	23.888	71385	40	5.130	24.650	71457	21	10.036	25.426
71242	23	13.506	21.176	71314	11	1.793	23.204	71386	15	5.596	24.366	71458	22	10.182	25.636
71243	13	13.612	21.551	71315	16	2.610	23.116	71387	14	5.710	24.710	71459	17	10.480	25.238
71244	39	13.652	21.754	71316	18	3.492	23.370	71388	25	6.324	24.264	71460	15	10.496	25.148
71245	32	13.716	21.236	71317	39	3.508	23.845	71389	15	6.850	24.862	71461	18	11.925	25.704
71246	30	14.118	21.664	71318	18	4.153	23.550	71390	15	7.406	24.176	71462	26	12.856	25.715
71247	34	14.250	21.392	71319	18	4.780	23.635	71391*	42	8.034	24.956	71463	32	13.260	25.040
71248	21	14.476	21.330	71320	22	5.476	23.504	71392	19	8.070	24.851	71464	28	13.499	25.873
71249	30	15.721	21.769	71321	42	5.914	23.414	71393	37	8.186	24.454	71465	19	13.579	25.955
71250	30	15.732	21.728	71322	23	6.131	23.574	71394	34	8.414	24.746	71466	28	14.258	25.255
71251	16	17.326	21.941	71323	16	6.936	23.846	71395	39	8.619	24.506	71467	16	16.056	25.355
71252	16	17.465	21.558	71324	15	7.272	23.015	71396	30	9.392	24.111	71468	54	16.956	25.702
71253*	59	17.641	21.426	71325	33	7.470	23.455	71397	13	9.944	24.672	71469	25	16.970	25.323
71254	30	17.847	21.735	71326	35	7.478	23.074	71398	34	10.398	24.036	71470	37	17.482	25.333
71255	28	19.877	21.540	71327	50	7.772	23.581	71399	40	10.446	24.391	71471	18	17.936	25.998
71256	17	22.069	21.399	71328	36	8.208	23.516	71400	36	11.896	24.902	71472	32	18.564	25.466
71257	20	22.156	21.214	71329	28	8.686	23.326	71401	15	12.144	24.544	71473	34	19.508	25.694
71258	21	22.700	21.625	71330	47	9.154	23.984	71402	40	12.308	24.135	71474	25	19.547	25.790
71259	24	23.394	21.682	71331	34	9.246	23.590	71403	18	12.770	24.442	71475	37	20.062	25.964
71260	41	23.450	21.216	71332	52	9.720	23.335	71404	37	13.248	24.080	71476	39	20.576	25.267
71261	44	23.476	21.239	71333	21	10.175	23.900	71405*	57	13.254	24.602	71477	42	20.935	25.516
71262	37	23.882	21.192	71334	40	10.232	23.723	71406	48	13.844	24.194	71478	40	21.934	25.558
71263	23	24.879	21.836	71335	26	10.658	23.960	71407*	54	13.976	24.826	71479	38	22.556	25.885
71264	17	25.493	21.491	71336	39	10.825	23.802	71408	18	14.125	24.014	71480	28	22.824	25.120
71265	37	25.645	21.114	71337	18	13.188	23.210	71409	24	14.217	24.834	71481	40	22.852	25.134
71266	38	25.820	21.584	71338	30	13.412	23.341	71410	38	14.372	24.224	71482	62	23.327	25.566
71267	30	1.210	22.316	71339	23	13.456	23.434	71411	30	14.929	24.676	71483	18	25.758	25.356
71268	34	1.280	22.906	71340	24	14.164	23.217	71412	26	15.140	24.502	71484	48	25.933	25.964
71269*	60	1.355	22.480	71341	38	14.234	23.054	71413	30	15.476	24.025				

R.A. 18<sup>h</sup> 20<sup>m</sup>

Plate 1987, 1922 May 23.

Provisional Constants.

A	B	C
-0.1770	+0.1071	-0.837

D	E	F
-0.1069	-0.1769	-1.290

Mag. = 16.7 - 1.05√d

No	d	c	y
71501	28	0.280	0.930
71502	10	1.163	0.130
71503	12	1.478	0.965
71504	9	1.920	0.679
71505	21	4.599	0.714
71506	11	5.460	0.604



71556	11	23.226	1.489	71628	12	22.988	3.526	71700	19	17.928	6.407	71772	10	23.138	9.168	71844	21	6.672	12.860
71557	23	24.515	1.332	71629	15	23.904	3.422	71701	29	18.691	6.746	71773	25	23.577	9.578	71845	21	6.990	12.458
71558	13	25.130	1.410	71630	10	25.221	3.937	71702	14	19.714	6.548	71774	10	24.861	9.418	71846	15	8.806	12.310
71559	43	0.686	2.030	71631	19	0.848	4.777	71703	26	20.368	6.380	71775	12	25.673	9.780	71847	27	8.842	12.911
71560	10	0.826	2.142	71632	19	0.850	4.888	71704	14	22.401	6.352	71776	10	0.843	10.136	71848	14	9.334	12.389
71561	24	1.044	2.640	71633	34	2.598	4.318	71705	16	1.985	7.925	71777	15	3.215	10.889	71849	11	11.368	12.990
71562	13	2.173	2.514	71634	14	4.980	4.540	71706	28	2.107	7.955	71778	16	4.172	10.898	71850	14	11.626	12.688
71563	44	2.779	2.195	71635	23	5.073	4.656	71707	32	3.362	7.158	71779	20	4.234	10.359	71851	19	11.782	12.324
71564	19	3.204	2.571	71636	15	5.295	4.120	71708	21	4.547	7.548	71780	25	4.552	10.042	71852	17	12.894	12.158
71565	13	3.435	2.560	71637	10	5.769	4.676	71709	30	5.450	7.440	71781	33	5.548	10.894	71853	18	12.925	12.750
71566	12	3.638	2.366	71638	10	5.982	4.120	71710	35	5.544	7.066	71782	14	5.610	10.410	71854	13	12.978	12.460
71567	18	4.305	2.285	71639	11	6.449	4.604	71711	29	6.264	7.004	71783	25	5.715	10.476	71855	18	13.536	12.045
71568	26	5.738	2.211	71640	10	6.924	4.874	71712	11	6.776	7.945	71784	19	5.728	10.782	71856	21	13.575	12.555
71569	21	5.855	2.767	71641	14	7.280	4.370	71713	23	7.839	7.818	71785	43	10.048	10.612	71857	12	14.404	12.188
71570	10	6.110	2.470	71642	9	8.019	4.022	71714	21	7.924	7.440	71786	27	11.620	10.836	71858	26	15.522	12.846
71571	32	7.254	2.654	71643	14	8.935	4.066	71715	11	10.622	7.008	71787	22	12.970	10.170	71859	17	15.998	12.550
71572	10	8.240	2.553	71644	10	10.920	4.490	71716	9	10.700	7.183	71788	15	14.390	10.000	71860	23	16.770	12.706
71573	10	8.490	2.960	71645	24	12.244	4.500	71717	18	10.716	7.064	71789	24	15.620	10.000	71861	12	17.188	12.134
71574	13	8.580	2.282	71646	39	14.336	4.662	71718	120	11.100	7.756	71790	18	17.142	10.986	71862	9	18.360	12.335
71575	31	8.747	2.799	71647	16	14.462	4.698	71719	18	11.351	7.550	71791	19	17.244	10.649	71863	18	19.297	12.926
71576	10	9.293	2.089	71648	17	16.000	4.548	71720	16	13.940	7.132	71792	10	17.858	10.017	71864	20	19.956	12.408
71577	31	9.961	2.014	71649	22	16.216	4.611	71721	9	15.384	7.254	71793	43	18.698	10.950	71865	12	20.625	12.029
71578	12	10.000	2.127	71650	12	17.954	4.640	71722	11	17.576	7.729	71794	50	18.800	10.840	71866	12	21.195	12.096
71579	27	10.952	2.370	71651	12	20.430	4.810	71723	10	20.148	7.069	71795	37	20.001	10.874	71867	11	21.508	12.802
71580	10	11.588	2.238	71652	10	22.580	4.938	71724	10	21.420	7.873	71796	15	20.698	10.818	71868	23	22.477	12.803
71581	11	13.514	2.555	71653	17	23.530	4.320	71725	20	21.990	7.528	71797	20	21.676	10.964	71869	82	23.512	12.630
71582	29	13.548	2.970	71654	10	23.641	4.474	71726	11	23.472	7.374	71798	19	22.674	10.368	71870	24	24.434	12.090
71583	13	14.290	2.100	71655	17	24.765	4.950	71727	10	0.222	8.527	71799	12	0.061	11.522	71871	13	24.490	12.960
71584	16	14.648	2.394	71656	48	25.500	4.802	71728	12	1.650	8.330	71800	11	0.535	11.668	71872	23	25.120	12.640
71585	27	14.972	2.818	71657	14	25.815	4.956	71729	24	2.579	8.366	71801	23	0.536	11.684	71873	20	25.182	12.442
71586	28	15.441	2.240	71658	21	1.982	5.139	71730	11	3.219	8.394	71802	22	0.824	11.172	71874	29	0.369	13.824
71587	14	16.108	2.202	71659	19	2.212	5.752	71731	35	3.730	8.458	71803	14	1.344	11.208	71875	13	3.190	13.546
71588	30	17.604	2.792	71660	10	2.842	5.011	71732	15	5.298	8.440	71804	15	2.048	11.020	71876	36	3.278	13.113
71589	17	20.991	2.118	71661	17	2.915	5.060	71733	44	5.314	8.170	71805	10	3.599	11.440	71877	24	3.863	13.514
71590	20	21.139	2.261	71662	40	2.930	5.050	71734	11	6.366	8.612	71806	10	4.159	11.120	71878	11	4.822	13.364
71591	37	22.549	2.696	71663	10	3.340	5.668	71735	32	6.674	8.784	71807	23	4.518	11.846	71879	10	5.421	13.610
71592	10	22.582	2.636	71664	28	3.965	5.836	71736	30	7.240	8.268	71808	27	5.340	11.191	71880	25	10.952	13.911
71593	11	23.422	2.016	71665	10	4.588	5.338	71737	26	8.452	8.102	71809	30	6.364	11.168	71881	10	11.590	13.017
71594	12	24.319	2.958	71666	15	6.912	5.049	71738	12	8.587	8.674	71810	20	7.411	11.896	71882	76	11.938	13.612
71595	34	25.121	2.752	71667	34	7.799	5.400	71739	26	10.665	8.295	71811	10	7.516	11.768	71883	35	13.340	13.966
71596	14	25.870	2.839	71668	43	7.964	5.222	71740	9	12.674	8.332	71812	10	7.766	11.932	71884	20	13.411	13.536
71597	15	0.174	3.576	71669	13	8.714	5.488	71741	32	12.700	8.120	71813	13	7.898	11.900	71885	21	13.758	13.679
71598	20	0.600	3.409	71670	10	9.318	5.540	71742	39	13.568	8.832	71814	36	8.584	11.671	71886	10	13.893	13.581
71599	10	1.222	3.301	71671	23	10.739	5.300	71743	15	14.188	8.782	71815	27	9.582	11.779	71887	12	16.266	13.786
71600	13	1.702	3.642	71672	11	11.304	5.686	71744	23	15.233	8.270	71816	12	10.498	11.634	71888	10	16.510	13.480
71601	34	1.946	3.860	71673	26	13.094	5.192	71745	17	17.296	8.956	71817	15	10.606	11.821	71889	19	16.675	13.580
71602	10	3.478	3.895	71674	33	14.550	5.783	71746	12	17.486	8.821	71818	10	10.963	11.760	71890	15	17.206	13.946
71603	28	4.190	3.701	71675	10	17.466	5.510	71747	12	17.980	8.539	71819	32	11.700	11.822	71891	10	19.128	13.754
71604	26	4.276	3.580	71676	10	17.706	5.501	71748	12	18.816	8.361	71820	10	14.494	11.322	71892	12	19.224	13.380
71605	13	4.340	3.614	71677	15	17.892	5.484	71749	12	19.245	8.084	71821	38	14.512	11.450	71893	31	19.321	13.273
71606	12	4.400	3.610	71678	33	19.152	5.562	71750	21	19.920	8.456	71822	22	14.524	11.744	71894	25	19.620	13.384
71607	42	4.852	3.082	71679	14	19.852	5.557	71751	14	22.472	8.852	71823	30	18.961	11.700	71895	10	19.622	13.876
71608	10	6.018	3.084	71680	21	24.981	5.460	71752	24	25.396	8.442	71824	10	19.640	11.796	71896	32	19.651	13.562
71609	10	7.344	3.864	71681	12	0.320	6.060	71753	12	25.874	8.732	71825	22	20.068	11.319	71897	36	20.622	13.150
71610	10	7.522	3.134	71682	10	3.005	6.629	71754	18	0.024	9.621	71826	20	20.220	11.600	71898	9	21.310	13.068
71611	39	9.254	3.756	71683	40	3.130	6.238	71755	11	0.570	9.864	71827	12	21.524	11.074	71899	10	22.200	13.730
71612	34	10.079	3.140	71684	27	3.210	6.591	71756	14	0.642	9.325	71828	10	23.250	11.810	71900	15	22.570	13.925
71613	10	12.630	3.728	71685	14	3.390	6.920	71757	10	1.206	9.898	71829	12	23.271	11.334	71901	9	23.360	13.083
71614	10	13.024	3.708	71686	10	3.428	6.821	71758	34	2.104	9.307	71830	34	24.923	11.060	71902	10	23.555	13.228
71615	15	13.326	3.035	71687	10	3.707	6.362	71759	40	2.640	9.680	71831	12	25.481	11.862	71903	10	25.285	13.302
71616	11	13.400	3.891	71688	12	3.742	6.550	71760	18	2.820	9.626	71832	34	25.788	11.507	71904	23	0.828	14.646
71617	9	13.860	3.569	71689	33	3.926	6.585	71761	20	3.911	9.878	71833	10	0.583	12.730	71905	12	1.266	14.404
71618	18	14.738	3.768	71690	10	4.128	6.714	71762	45	5.538	9.102	71834	10	0.806	12.660	71906	44		



71916*	38	8 044	14.760	71988	16	2.719	17.594	72060	12	15.448	19.049	72132	22	13.010	21.700	72204	18	13.856	23.590
71917	22	8.204	14.896	71989	26	2.854	17.764	72061	15	16.071	19.261	72133	24	13.048	21.940	72205	10	14.861	23.792
71918	32	9.962	14.541	71990*	41	3.280	17.583	72062	10	18.230	19.273	72134	27	13.218	21.760	72206	23	14.995	23.714
71919	16	10.106	14.610	71991	17	4.798	17.140	72063	10	20.342	19.516	72135	32	13.901	21.220	72207	19	16.842	23.900
71920	30	10.589	14.310	71992	12	5.910	17.718	72064	20	20.518	19.165	72136	35	17.539	21.755	72208	20	17.000	23.071
71921	13	10.598	14.902	71993	15	5.954	17.170	72065	19	20.555	19.450	72137	37	17.578	21.040	72209	11	18.735	23.960
71922	9	11.630	14.514	71994	11	7.570	17.915	72066	34	21.165	19.340	72138	22	19.480	21.143	72210	9	20.305	23.158
71923	23	12.190	14.596	71995	39	10.706	17.864	72067	30	21.216	19.249	72139	24	20.272	21.134	72211	26	21.062	23.010
71924	15	13.107	14.483	71996	17	11.124	17.214	72068	25	21.540	19.940	72140	12	20.370	21.876	72212	10	21.839	23.865
71925	18	13.116	14.070	71997	12	11.460	17.678	72069	22	21.716	19.188	72141	20	21.118	21.132	72213	12	21.953	23.886
71926	15	13.500	14.464	71998	33	14.318	17.585	72070	26	21.890	19.588	72142	11	21.944	21.620	72214	27	22.075	23.031
71927	12	15.507	14.450	71999	10	16.748	17.907	72071	9	23.612	19.233	72143	24	22.523	21.240	72215	12	1.730	24.419
71928	16	15.706	14.554	72000	32	17.758	17.018	72072	10	25.255	19.108	72144	15	23.060	21.040	72216	11	2.132	24.100
71929	16	15.969	14.289	72001	14	17.820	17.780	72073	28	0.073	20.950	72145	35	23.311	21.785	72217	10	3.192	24.308
71930	34	19.792	14.114	72002	27	18.054	17.494	72074	11	0.522	20.225	72146	14	25.677	21.252	72218	18	3.432	24.546
71931	14	20.162	14.321	72003	17	18.305	17.545	72075	11	0.616	20.400	72147	28	26.000	21.516	72219	37	3.617	24.971
71932	14	20.176	14.604	72004*	44	18.737	17.297	72076	13	1.700	20.142	72148	17	0.526	22.558	72220	34	4.710	24.409
71933	10	20.699	14.949	72005	29	19.260	17.570	72077	14	1.830	20.972	72149	10	1.120	22.033	72221	10	5.946	24.154
71934	11	21.014	14.610	72006*	41	19.649	17.172	72078	10	3.361	20.339	72150	18	1.816	22.082	72222	12	6.708	24.285
71935	24	22.211	14.727	72007	10	20.420	17.824	72079*	44	3.982	20.071	72151	24	2.148	22.962	72223*	46	6.850	24.010
71936	32	22.470	14.892	72008	22	20.562	17.410	72080	27	5.168	20.865	72152	16	2.532	22.498	72224	21	7.478	24.450
71937	15	24.734	14.744	72009*	65	20.742	17.512	72081	32	5.218	20.868	72153	17	3.300	22.219	72225	18	8.038	24.616
71938	11	25.614	14.414	72010	21	23.905	17.833	72082	10	6.046	20.982	72154	20	3.337	22.919	72226	11	8.669	24.823
71939	14	2.380	15.846	72011	11	0.324	18.485	72083	16	7.275	20.344	72155	11	4.540	22.981	72227	18	8.678	24.875
71940	37	3.682	15.649	72012	19	7.070	18.867	72084	13	7.869	20.654	72156	32	5.399	22.064	72228	15	8.778	24.606
71941	29	3.889	15.630	72013	32	7.075	18.875	72085	10	8.100	20.598	72157	19	5.768	22.652	72229	9	9.034	24.788
71942	26	4.680	15.432	72014	20	7.650	18.018	72086	12	8.429	20.698	72158	31	5.992	22.140	72230	35	9.474	24.420
71943	38	5.659	15.500	72015	14	8.405	18.955	72087	12	8.902	20.842	72159	32	6.130	22.345	72231	30	10.276	24.864
71944	10	10.142	15.186	72016	29	9.743	18.832	72088	11	9.074	20.022	72160	14	6.275	22.590	72232	27	10.945	24.604
71945	10	12.016	15.671	72017	22	10.162	18.800	72089	13	9.673	20.240	72161	15	7.675	22.795	72233	27	10.960	24.951
71946	17	13.600	15.440	72018	42	10.335	18.938	72090	27	9.910	20.156	72162*	37	7.770	22.830	72234	11	11.030	24.932
71947	12	13.734	15.489	72019	12	11.327	18.120	72091	11	10.668	20.832	72163	10	8.128	22.590	72235	35	11.536	24.164
71948	21	13.744	15.365	72020	37	13.658	18.725	72092	25	11.609	20.450	72164	11	8.606	22.539	72236	10	13.496	24.162
71949	32	13.816	15.417	72021	22	15.098	18.688	72093	20	11.738	20.654	72165	40	9.242	22.553	72237	10	13.868	24.630
71950	12	13.902	15.297	72022	13	15.161	18.891	72094	29	11.785	20.732	72166	9	10.058	22.172	72238	24	14.430	24.420
71951	10	13.944	15.288	72023	10	16.304	18.114	72095	13	12.318	20.826	72167	10	11.219	22.160	72239	23	14.664	24.390
71952	31	16.374	15.024	72024	12	16.323	18.450	72096	11	12.540	20.821	72168	30	11.963	22.508	72240	30	15.208	24.020
71953	10	16.751	15.144	72025	25	18.326	18.170	72097	18	14.192	20.631	72169	34	12.206	22.181	72241	18	15.324	24.230
71954	24	17.490	15.770	72026	13	18.365	18.935	72098	11	14.192	20.300	72170	10	12.736	22.162	72242	34	16.844	24.510
71955*	40	18.858	15.992	72027	32	18.751	18.978	72099	17	15.880	20.288	72171	13	13.700	22.513	72243	20	17.120	24.111
71956	15	18.880	15.921	72028	18	19.394	18.546	72100*	44	16.543	20.954	72172	22	13.968	22.301	72244	11	17.170	24.371
71957	29	19.780	15.501	72029	39	20.841	18.566	72101*	58	18.388	20.124	72173	20	14.278	22.296	72245	26	17.300	24.115
71958	15	20.316	15.692	72030	23	22.438	18.917	72102	11	19.036	20.640	72174	32	14.356	22.942	72246	19	17.944	24.582
71959	20	21.325	15.760	72031	10	22.913	18.562	72103	27	19.469	20.594	72175*	37	14.625	22.468	72247	28	18.946	24.012
71960	14	22.670	15.730	72032	23	25.005	18.608	72104*	44	20.520	20.698	72176	16	16.196	22.480	72248	23	19.835	24.422
71961	25	24.725	15.554	72033	21	25.142	18.232	72105	22	20.926	20.868	72177	24	16.737	22.764	72249	10	20.925	24.739
71962	29	25.174	15.759	72034	12	25.380	18.600	72106*	58	22.385	20.697	72178	15	16.741	22.257	72250	12	21.832	24.061
71963	17	25.552	15.010	72035	13	25.580	18.401	72107	17	22.454	20.878	72179	22	17.994	22.382	72251	19	23.528	24.420
71964	14	4.540	16.641	72036	12	1.008	19.250	72108	13	22.845	20.660	72180	10	18.930	22.987	72252	26	23.686	24.157
71965	12	4.578	16.128	72037	22	2.182	19.459	72109	10	22.922	20.014	72181	11	19.424	22.916	72253	34	25.429	24.620
71966	13	4.630	16.158	72038	16	2.622	19.642	72110	10	23.537	20.296	72182	35	19.441	22.086	72254	22	25.592	24.442
71967	19	4.662	16.180	72039	14	2.657	19.072	72111	14	23.946	20.710	72183	11	20.560	22.120	72255	29	0.404	25.976
71968	31	6.826	16.619	72040	13	3.584	19.431	72112	21	23.978	20.169	72184	14	22.810	22.766	72256	14	0.442	25.228
71969	22	6.912	16.200	72041	12	4.630	19.244	72113	12	25.260	20.234	72185	12	24.936	22.887	72257	16	1.288	25.528
71970	17	9.931	16.948	72042	17	5.130	19.087	72114	19	25.640	20.900	72186*	58	25.452	22.088	72258	31	1.315	25.540
71971	9	10.631	16.834	72043	32	6.195	19.873	72115	15	0.703	21.368	72187	22	2.771	23.610	72259	45	1.792	25.968
71972	10	10.808	16.964	72044	40	6.402	19.648	72116	35	1.865	21.616	72188	11	3.115	23.892	72260*	64	1.831	25.253
71973	17	11.179	16.762	72045	11	6.635	19.936	72117	40	1.892	21.640	72189	22	3.380	23.442	72261	35	3.170	25.280
71974	10	12.226	16.292	72046	23	7.064	19.648	72118	23	2.298	21.586	72190	16	3.989	23.009	72262	22	3.210	25.182
71975	32	13.969	16.810	72047	22	8.491	19.264	72119	29	3.464	21.066	72191	20	4.274	23.534	72263	35	3.260	25.233
71976	38	14.591	16.172	72048	24	8.590	19.917	72120	10	3.910	21.867	72192	27	5.480	23.668	72264	10	4.225	25.726
71977	10	15.971	16.384	72049	10	9.189	19.053	72121	26	4.063	21.788	72193	44	8.928	23.882				



72276	27	10.929	25.121	72338	38	17.327	0.201	72410	19	1.283	2.066	72482	12	11.022	3.973	72554	10	15.810	4.469
72277	16	11.190	25.069	72339	33	17.842	0.074	72411	16	2.193	2.997	72483	11	11.416	3.779	72555	13	16.352	4.811
72278	25	11.258	25.041	72340	10	17.913	0.840	72412	36	2.991	2.781	72484	24	11.566	3.854	72556	12	16.640	4.989
72279	44	11.965	25.059	72341	30	17.958	0.628	72413	10	3.250	2.260	72485	12	11.618	3.064	72557	15	16.690	4.220
72280	12	16.472	25.050	72342	32	18.271	0.081	72414	10	3.592	2.721	72486	33	11.942	3.090	72558	40	17.202	4.802
72281	26	18.756	25.422	72343	33	20.574	0.200	72415	12	3.740	2.860	72487	10	12.799	3.760	72559	13	18.545	4.944
72282	10	19.216	25.304	72344	23	21.776	0.792	72416	22	3.905	2.890	72488	12	13.512	3.938	72560	11	18.703	4.539
72283	34	19.667	25.555	72345	10	22.148	0.040	72417	18	3.996	2.852	72489	13	13.535	3.020	72561	31	18.954	4.560
72284	30	22.018	25.669	72346	14	22.552	0.281	72418	10	4.354	2.362	72490	10	13.640	3.464	72562	31	18.983	4.682
72285	35	22.240	25.305	72347	10	22.627	0.490	72419	14	4.370	2.194	72491	12	13.951	3.046	72563	45	19.009	4.008
72286	12	22.276	25.422	72348	12	22.762	0.808	72420	24	4.528	2.635	72492	12	14.338	3.493	72564	25	19.090	4.952
<b>R.A. 18<sup>h</sup> 28<sup>m</sup></b> Plate 2004; 1922 Oct 12 <i>Provisional Constants.</i> A            B            C - 01735 +01152 -0814 D            E            F -01122 -01735 -3212 Mag.=17.2-1.05√d				72349	14	23.726	0.026	72421	11	4.989	2.385	72493	44	14.664	3.972	72565	20	19.187	4.865
				72350	10	23.820	0.586	72422	12	5.087	2.160	72494	12	15.096	3.855	72566	24	19.255	4.811
				72351	11	25.256	0.609	72423	17	5.436	2.915	72495	24	15.530	3.752	72567	14	19.434	4.378
				72352	11	0.114	1.198	72424	16	5.606	2.455	72496	10	16.067	3.072	72568	40	19.547	4.617
				72353	26	0.668	1.062	72425	32	6.190	2.568	72497	15	16.534	3.962	72569	14	20.113	4.815
				72354	17	1.079	1.544	72426	14	6.616	2.758	72498*	42	16.612	3.756	72570	20	20.360	4.330
				72355	10	1.197	1.804	72427	42	6.674	2.115	72499	14	16.816	3.339	72571	13	20.805	4.703
				72356	12	1.725	1.118	72428	27	6.895	2.392	72500	35	18.590	3.392	72572	26	20.942	4.474
				72357	32	2.366	1.368	72429	20	7.090	2.116	72501	12	18.845	3.396	72573	44	21.088	4.324
				72358	17	3.165	1.376	72430	24	7.956	2.266	72502	10	19.788	3.528	72574	26	21.128	4.472
72301	22	0.974	0.231	72359	24	3.184	1.435	72431	37	8.080	2.020	72503	26	20.105	3.002	72575	10	21.240	4.138
72302	40	2.224	0.682	72360	10	3.912	1.494	72432	11	8.314	2.178	72504	25	20.122	3.255	72576	12	21.294	4.130
72303	11	2.866	0.436	72361	15	4.338	1.136	72433	10	9.109	2.548	72505	16	20.128	3.660	72577	12	21.348	4.244
72304	12	3.976	0.496	72362	20	4.794	1.875	72434	10	10.238	2.554	72506	10	20.214	3.810	72578	22	21.806	4.157
72305	15	4.568	0.272	72363	10	4.900	1.985	72435	10	11.012	2.311	72507	11	20.431	3.946	72579	18	22.186	4.079
72306	45	4.674	0.820	72364	15	6.065	1.445	72436	15	11.580	2.311	72508	48	20.619	3.477	72580	10	23.394	4.237
72307	16	6.395	0.035	72365	12	6.072	1.185	72437	16	11.830	2.430	72509	35	21.875	3.855	72581	16	23.786	4.064
72308	11	6.652	0.138	72366	11	6.288	1.624	72438	13	11.900	2.050	72510	14	23.144	3.526	72582	12	23.852	4.649
72309	27	7.044	0.824	72367	10	6.589	1.959	72439	24	12.986	2.261	72511	15	23.249	3.298	72583	42	24.499	4.538
72310	16	7.067	0.680	72368	24	6.668	1.120	72440	20	13.018	2.906	72512	12	23.464	3.060	72584	19	25.025	4.206
72311	11	7.076	0.320	72369	19	7.094	1.838	72441	11	13.396	2.207	72513	27	24.075	3.063	72585	11	25.134	4.132
72312	33	7.342	0.330	72370	10	7.184	1.592	72442	13	16.038	2.669	72514	15	24.195	3.628	72586	33	25.800	4.270
72313	50	7.396	0.865	72371	25	7.706	1.855	72443	11	16.539	2.782	72515	13	24.594	3.322	72587	25	2.885	5.492
72314	16	7.469	0.880	72372	13	7.754	1.651	72444	12	16.595	2.076	72516	43	25.096	3.744	72588	22	4.945	5.682
72315	10	8.256	0.098	72373	13	7.822	1.524	72445	12	17.502	2.232	72517	12	0.484	4.999	72589	21	5.010	5.406
72316	14	9.755	0.024	72374	12	7.843	1.584	72446	29	18.118	2.926	72518	13	0.744	4.380	72590	24	5.958	5.235
72317	11	10.104	0.526	72375	13	8.031	1.875	72447	10	20.209	2.774	72519	24	1.420	4.369	72591	28	6.178	5.660
72318	10	10.389	0.218	72376	12	9.139	1.912	72448	26	20.628	2.698	72520	14	1.534	4.525	72592	10	6.939	5.326
72319	10	11.465	0.517	72377	20	10.726	1.699	72449	10	20.664	2.368	72521	14	2.522	4.816	72593	13	7.822	5.354
72320	10	11.690	0.342	72378	12	10.929	1.905	72450	35	21.205	2.679	72522	24	2.664	4.985	72594	10	7.882	5.853
72321	25	11.692	0.734	72379	12	10.966	1.922	72451	16	21.674	2.298	72523	10	2.775	4.884	72595	10	8.046	5.468
72322	29	12.030	0.334	72380	25	11.634	1.683	72452*	48	21.840	2.036	72524*	58	3.393	4.826	72596	10	8.095	5.390
72323	24	12.432	0.852	72381	16	12.300	1.276	72453	45	21.870	2.226	72525	10	3.645	4.424	72597	40	8.398	5.295
72324	40	13.178	0.683	72382	26	13.040	1.867	72454	22	21.915	2.410	72526	20	3.714	4.977	72598	10	8.894	5.555
72325	10	13.190	0.982	72383	33	13.479	1.696	72455	22	22.372	2.365	72527	14	4.584	4.332	72599	42	10.025	5.918
72326	23	13.884	0.938	72384	18	13.998	1.759	72456	30	22.570	2.846	72528	25	4.660	4.293	72600	12	10.044	5.776
72327	13	13.923	0.068	72385	12	14.174	1.900	72457	10	22.884	2.866	72529	13	4.678	4.941	72601	10	11.155	5.529
72328	12	14.328	0.137	72386	10	14.801	1.094	72458*	53	22.966	2.214	72530	11	5.919	4.644	72602*	80	11.486	5.748
72329	10	15.240	0.395	72387	15	15.254	1.000	72459	25	24.218	2.018	72531	12	7.122	4.745	72603	25	11.500	5.222
72330	10	15.273	0.858	72388	22	15.654	1.571	72460	13	0.304	3.434	72532	17	7.888	4.620	72604	12	11.554	5.809
72331	13	15.908	0.066	72389	20	16.886	1.358	72461	40	0.495	3.983	72533	10	7.900	4.529	72605	10	12.042	5.818
72332	30	16.050	0.606	72390	11	16.941	1.156	72462	20	0.866	3.584	72534	31	8.282	4.209	72606	19	12.211	5.646
72333	12	16.205	0.604	72391	24	17.654	1.204	72463	12	0.934	3.304	72535	18	8.347	4.692	72607	20	12.334	5.650
72334	10	16.205	0.924	72392	13	17.796	1.096	72464	15	1.419	3.300	72536	13	8.419	4.582	72608	12	12.668	5.596
72335	11	16.896	0.944	72393	26	18.190	1.897	72465	24	1.784	3.468	72537	33	9.476	4.080	72609	20	13.681	5.078
72336	10	17.024	0.846	72394	17	19.142	1.042	72466	16	3.106	3.968	72538	24	9.540	4.558	72610	13	14.578	5.498
72337	20	17.124	0.866	72395	25	19.215	1.174	72467	10	3.250	3.245	72539	12	9.732	4.281	72611	14	15.911	5.779
				72396	29	19.375	1.135	72468	26	4.140	3.493	72540	32	10.280	4.415	72612	26	15.954	5.955
				72397	11	21.882	1.266	72469	11	4.484	3.705	72541	27	10.784	4.920	72613	14	16.074	5.022
				72398	17	22.068	1.034	72470	15	5.911	3.406	72542	11	11.380	4.911	72614	16	17.960	5.015
				72399	18	22.210	1.945	72471	12	6.248	3.242	72543	11	11.614	4.461	72615	11	18.904	5.725
				72400	42	22.308	1.058	72472	17	6.450	3.540	72544	17	12.108	4.546	72616	40	18.956	5.100



72626	12	21.754	5.986	72698	25	10.396	7.145	72770*	40	11.660	8.765	72842	13	17.396	9.984	72914	10	22.410	10.672
72627	14	21.812	5.975	72699	25	10.490	7.088	72771	22	11.706	8.445	72843	10	17.564	9.195	72915	20	23.406	10.517
72628	23	22.056	5.834	72700	16	11.054	7.654	72772	33	11.795	8.940	72844	19	17.768	9.551	72916	29	23.654	10.525
72629	31	22.174	5.164	72701	11	11.170	7.272	72773	11	12.614	8.055	72845	13	18.396	9.708	72917	15	25.218	10.288
72630	48	22.188	5.330	72702	15	11.630	7.466	72774	11	13.184	8.656	72846	12	18.936	9.535	72918	30	25.575	10.310
72631	14	23.851	5.044	72703	38	11.828	7.194	72775	21	13.390	8.402	72847	23	19.462	9.316	72919	22	1.210	11.865
72632	11	24.772	5.646	72704	11	12.040	7.258	72776	10	13.890	8.342	72848	34	19.504	9.171	72920	13	1.255	11.387
72633	40	25.156	5.700	72705	16	12.103	7.024	72777	12	16.155	8.125	72849	18	19.970	9.833	72921	10	1.338	11.951
72634	11	25.509	5.802	72706	12	12.372	7.191	72778	13	16.226	8.860	72850	10	20.126	9.298	72922	14	1.370	11.188
72635	35	25.655	5.401	72707	17	12.445	7.915	72779	14	16.330	8.195	72851	11	20.552	9.673	72923	10	1.455	11.044
72636	24	0.320	6.416	72708	13	12.607	7.328	72780	10	16.529	8.292	72852	12	20.610	9.436	72924	10	1.920	11.245
72637	12	0.996	6.799	72709	20	14.593	7.895	72781	15	16.930	8.284	72853	23	20.623	9.116	72925	40	2.902	11.093
72638	12	4.104	6.011	72710	11	14.945	7.246	72782	10	17.231	8.964	72854	16	21.350	9.241	72926	13	3.344	11.750
72639	21	4.394	6.519	72711	12	14.985	7.494	72783	19	17.470	8.875	72855	22	21.560	9.930	72927	22	3.470	11.886
72640	18	4.930	6.878	72712	12	15.476	7.428	72784	13	17.640	8.334	72856	15	21.679	9.616	72928	10	3.737	11.463
72641	10	5.879	6.317	72713	12	15.805	7.402	72785	29	17.954	8.448	72857	40	21.727	9.195	72929	40	3.772	11.527
72642	12	6.739	6.490	72714	10	15.826	7.344	72786	12	19.925	8.232	72858	25	21.962	9.895	72930	12	3.802	11.390
72643	12	7.618	6.367	72715	14	15.900	7.588	72787	19	20.442	8.853	72859	12	23.941	9.724	72931	10	4.536	11.086
72644	13	8.127	6.495	72716	12	16.676	7.794	72788	10	20.760	8.948	72860	12	24.872	9.876	72932	14	4.666	11.038
72645	20	8.769	6.500	72717	16	16.695	7.658	72789	24	20.820	8.124	72861	40	25.012	9.302	72933	26	5.351	11.056
72646	12	9.018	6.868	72718	16	16.858	7.424	72790	17	21.104	8.286	72862	15	25.143	9.655	72934	44	6.000	11.759
72647	16	9.384	6.477	72719	12	16.937	7.264	72791	46	21.555	8.915	72863	26	0.642	10.428	72935	11	7.310	11.566
72648	11	9.755	6.310	72720	12	17.776	7.882	72792	42	21.635	8.524	72864	12	1.914	10.453	72936	22	7.554	11.289
72649	20	10.558	6.229	72721	17	18.238	7.753	72793	10	21.670	8.672	72865	15	3.845	10.120	72937	31	8.474	11.646
72650	11	10.758	6.578	72722	22	18.492	7.646	72794	36	22.028	8.116	72866	34	4.073	10.331	72938	24	9.055	11.405
72651	16	11.266	6.130	72723	12	18.771	7.194	72795	10	22.348	8.393	72867	37	4.214	10.691	72939	27	9.580	11.325
72652	31	11.358	6.570	72724	12	18.808	7.278	72796	22	22.745	8.694	72868	10	5.134	10.734	72940	10	10.304	11.736
72653	13	12.011	6.871	72725	10	19.590	7.016	72797	14	22.751	8.515	72869	13	6.210	10.994	72941	12	10.448	11.028
72654	36	12.290	6.994	72726	12	20.088	7.775	72798	12	23.045	8.166	72870	25	6.635	10.715	72942	20	10.516	11.421
72655	11	12.566	6.604	72727	40	20.277	7.186	72799	14	23.324	8.636	72871	11	6.798	10.537	72943	24	11.060	11.942
72656	12	12.608	6.364	72728	10	20.666	7.515	72800	10	23.430	8.114	72872	25	6.804	10.872	72944	35	11.205	11.636
72657	14	12.844	6.657	72729	13	21.694	7.230	72801	25	24.359	8.088	72873	26	6.864	10.814	72945	14	12.124	11.470
72658	25	12.922	6.695	72730	20	21.731	7.140	72802	14	24.998	8.535	72874	25	6.985	10.267	72946	10	12.868	11.834
72659	20	14.430	6.040	72731	19	21.789	7.620	72803	10	25.280	8.352	72875	19	8.210	10.002	72947	11	12.900	11.932
72660	10	14.718	6.356	72732	24	21.863	7.602	72804	16	1.095	9.219	72876*	50	8.315	10.077	72948	25	14.560	11.772
72661	14	15.576	6.714	72733	11	21.935	7.845	72805	26	1.536	9.626	72877	16	8.488	10.134	72949	20	14.960	11.471
72662	13	15.620	6.364	72734	10	22.069	7.937	72806	12	2.033	9.813	72878	16	8.529	10.496	72950	45	15.082	11.665
72663	11	15.880	6.980	72735	22	22.736	7.670	72807	11	2.554	9.628	72879	32	8.617	10.085	72951	14	15.670	11.184
72664	10	15.904	6.142	72736	24	23.622	7.024	72808	12	2.704	9.749	72880	8	8.843	10.488	72952	26	16.425	11.173
72665	32	18.228	6.324	72737	20	23.705	7.691	72809	17	2.820	9.454	72881	13	8.910	10.854	72953*	124	16.652	11.320
72666	10	18.394	6.733	72738	12	23.736	7.270	72810	21	3.635	9.804	72882	10	9.411	10.832	72954	22	19.062	11.272
72667	10	19.891	6.363	72739	15	24.154	7.696	72811	10	4.028	9.906	72883	24	9.562	10.770	72955	13	19.374	11.454
72668	20	19.899	6.026	72740	12	24.155	7.120	72812	10	4.164	9.921	72884	15	11.085	10.840	72956	35	19.514	11.734
72669	10	20.044	6.101	72741	24	25.156	7.564	72813	10	4.230	9.726	72885	19	11.632	10.785	72957	10	19.830	11.775
72670	24	20.190	6.614	72742	13	25.390	7.150	72814	32	5.741	9.696	72886	11	11.965	10.732	72958	12	20.224	11.173
72671	44	21.336	6.792	72743	25	25.475	7.018	72815	22	7.333	9.874	72887	19	11.986	10.740	72959	13	20.260	11.436
72672	32	21.386	6.922	72744	22	25.572	7.738	72816*	50	7.555	9.324	72888	17	12.038	10.895	72960	19	20.290	11.494
72673	12	21.465	6.446	72745	19	25.692	7.074	72817	24	7.590	9.358	72889	12	12.266	10.344	72961	16	20.870	11.338
72674	11	21.820	6.360	72746	20	0.423	8.918	72818	10	7.636	9.177	72890	20	13.956	10.989	72962	28	21.076	11.006
72675	13	23.412	6.174	72747	10	0.795	8.016	72819	15	8.774	9.097	72891	17	14.491	10.154	72963	17	21.082	11.220
72676	12	23.652	6.700	72748	11	0.952	8.870	72820	12	9.089	9.040	72892	13	14.845	10.146	72964	25	21.522	11.897
72677	12	24.414	6.842	72749	11	1.108	8.796	72821	25	9.365	9.052	72893	30	16.100	10.875	72965	10	21.620	11.112
72678	11	24.684	6.568	72750	30	3.340	8.468	72822	33	9.781	9.972	72894	10	16.194	10.130	72966	20	22.066	11.522
72679	22	24.960	6.182	72751	19	3.824	8.753	72823	24	10.015	9.951	72895	11	16.682	10.424	72967	12	22.239	11.250
72680	27	25.070	6.785	72752	12	4.520	8.042	72824	15	10.028	9.674	72896	17	16.806	10.024	72968	12	22.759	11.722
72681	24	25.953	6.710	72753	11	4.740	8.736	72825*	50	10.044	9.103	72897	19	17.120	10.467	72969	18	22.997	11.991
72682	10	1.091	7.406	72754	28	4.805	8.942	72826	13	10.174	9.468	72898	10	17.832	10.368	72970	10	23.492	11.154
72683	20	1.402	7.424	72755	15	4.960	8.946	72827	16	10.624	9.885	72899	11	18.153	10.550	72971	20	24.378	11.166
72684	11	2.735	7.624	72756	18	7.045	8.226	72828	11	11.067	9.826	72900	12	18.702	10.832	72972	31	24.728	11.428
72685	19	3.974	7.831	72757	25	7.640	8.202	72829	11	11.250	9.292	72901	13	18.712	10.264	72973	14	24.973	11.594
72686	18	5.614	7.938	72758	22	8.036	8.208	72830	12	11.335	9.586	72902	12	18.889	10.656	72974	25	25.086	11.558
72687	15	5.832	7.796	72759	12	8.658	8.858	72831	19	11.428	9.876	72903	18	18.922	10.934	72975	11	25.916	11.416
72688	20	5.870	7.404	72760	12	8.726	8.348	72832	13	11.954	9.382	72904	11						



72986	32	3 120	12.670	73058	34	10.292	13.404	73130	24	19.890	14.132	73202	14	1.154	16.609	73274	15	24.300	16.316
72987	27	3.181	12.472	73059	10	10.439	13.627	73131	12	20.050	14.560	73203	16	2.184	16.102	73275	18	24.670	16.658
72988	14	3.358	12.732	73060	11	10.591	13.532	73132	12	20.706	14.667	73204	17	2.796	16.488	73276	11	24.726	16.824
72989	12	3.405	12.415	73061	28	10.795	13.372	73133	26	20.885	14.416	73205	29	3.058	16.374	73277	12	24.736	16.946
72990	20	4.418	12.809	73062	15	10.994	13.707	73134	19	21.385	14.452	73206	10	3.252	16.526	73278	10	25.820	16.632
72991	24	5.118	12.252	73063	42	11.219	13.677	73135	11	21.642	14.324	73207	26	4.379	16.728	73279	23	25.970	16.026
72992	25	5.882	12.505	73064	20	11.290	13.245	73136	14	22.683	14.844	73208	35	4.514	16.870	73280	20	0.290	17.006
72993	10	6.446	12.858	73065	20	11.585	13.856	73137	10	23.404	14.232	73209	13	4.595	16.484	73281	10	0.318	17.392
72994	11	6.645	12.963	73066	22	11.814	13.862	73138	10	23.419	14.491	73210	10	4.876	16.803	73282	18	0.446	17.585
72995	10	6.861	12.019	73067	10	13.200	13.534	73139	11	23.453	14.612	73211	12	5.114	16.444	73283	25	1.975	17.878
72996	16	7.462	12.135	73068	24	13.458	13.530	73140	10	25.106	14.845	73212	16	5.610	16.651	73284	10	2.939	17.091
72997	12	7.534	12.944	73069	26	13.550	13.799	73141	24	25.717	14.392	73213	43	6.010	16.165	73285	28	4.080	17.868
72998	14	7.675	12.309	73070	10	13.598	13.327	73142	10	25.835	14.624	73214	16	6.766	16.886	73286	16	4.265	17.704
72999	12	8.382	12.617	73071	12	13.614	13.076	73143	22	0.715	15.793	73215	11	7.173	16.537	73287	15	5.354	17.285
73000	13	9.897	12.048	73072	12	14.430	13.545	73144	13	0.722	15.148	73216	12	7.306	16.524	73288	10	5.524	17.220
73001	18	10.056	12.470	73073	10	14.710	13.028	73145	13	1.286	15.005	73217	24	7.770	16.202	73289	14	5.898	17.854
73002	12	10.215	12.470	73074	10	14.924	13.356	73146	14	2.120	15.838	73218	13	8.275	16.134	73290	25	5.898	17.871
73003	38	10.220	12.755	73075	15	16.248	13.840	73147	26	2.765	15.590	73219	20	8.655	16.510	73291	18	6.010	17.522
73004	29	10.232	12.162	73076	15	16.408	13.600	73148	31	3.216	15.786	73220	11	8.945	16.384	73292	20	6.586	17.106
73005	12	11.576	12.974	73077	12	16.530	13.793	73149	11	3.402	15.019	73221	40	9.146	16.074	73293	10	6.768	17.930
73006	12	12.475	12.900	73078	40	17.674	13.605	73150	24	3.585	15.035	73222	11	9.471	16.855	73294	17	6.800	17.705
73007	10	12.674	12.252	73079	10	17.788	13.639	73151	13	3.844	15.360	73223	10	9.679	16.716	73295	15	7.630	17.450
73008	12	13.669	12.041	73080	13	18.799	13.929	73152	10	5.098	15.200	73224	16	10.370	16.360	73296	31	9.052	17.116
73009	12	13.864	12.204	73081	17	18.970	13.134	73153	12	5.288	15.344	73225	13	10.528	16.405	73297	12	9.112	17.772
73010	10	14.860	12.319	73082	13	19.270	13.099	73154	19	5.735	15.966	73226	13	10.730	16.125	73298	13	9.386	17.570
73011	14	16.696	12.098	73083	42	20.610	13.212	73155	15	6.195	15.987	73227	13	10.884	16.374	73299	11	9.590	17.802
73012	13	16.745	12.888	73084	10	20.751	13.900	73156	16	6.454	15.170	73228	31	11.102	16.624	73300	11	10.502	17.868
73013	26	16.828	12.976	73085	14	21.085	13.122	73157	10	6.794	15.465	73229	28	11.190	16.404	73301	12	11.156	17.949
73014	11	17.400	12.485	73086	44	21.159	13.756	73158	18	7.452	15.112	73230	13	11.253	16.204	73302	13	11.755	17.084
73015	15	17.492	12.106	73087	20	21.366	13.205	73159	10	8.775	15.969	73231	25	11.640	16.005	73303	21	13.742	17.630
73016	26	17.999	12.730	73088	12	21.471	13.037	73160	14	9.720	15.968	73232	27	12.043	16.184	73304	17	14.185	17.686
73017	20	18.458	12.404	73089	10	21.946	13.742	73161	14	10.680	15.243	73233	11	12.078	16.774	73305	12	14.223	17.436
73018	10	18.530	12.900	73090	20	22.200	13.921	73162	11	10.891	15.870	73234	12	12.160	16.902	73306	22	14.902	17.058
73019	32	19.755	12.620	73091	12	22.295	13.330	73163	12	11.278	15.254	73235	40	12.218	16.134	73307	29	15.134	17.175
73020	19	19.777	12.532	73092	10	22.399	13.645	73164	14	11.563	15.014	73236	13	12.267	16.816	73308	13	15.697	17.624
73021	14	20.062	12.078	73093	11	23.330	13.572	73165	62	11.840	15.964	73237	30	12.294	16.806	73309	38	16.195	17.400
73022	30	21.720	12.858	73094	11	23.419	13.882	73166	11	12.106	15.470	73238	12	12.346	16.686	73310	10	16.762	17.049
73023	11	21.734	12.110	73095	22	23.422	13.834	73167	28	12.304	15.224	73239	36	13.000	16.760	73311	17	17.406	17.780
73024	24	21.862	12.074	73096	24	23.512	13.320	73168	24	12.684	15.376	73240	12	13.982	16.638	73312	21	17.762	17.959
73025	14	21.890	12.898	73097	13	24.204	13.584	73169	10	13.770	15.295	73241	24	14.010	16.504	73313	17	19.178	17.258
73026	12	21.925	12.375	73098	18	24.816	13.318	73170	13	14.204	15.884	73242	25	14.446	16.298	73314	38	19.342	17.580
73027	10	22.282	12.572	73099	14	25.730	13.954	73171	22	16.128	15.154	73243	16	14.945	16.415	73315	29	19.404	17.620
73028	12	22.996	12.084	73100	28	0.241	14.794	73172	10	16.254	15.178	73244	18	15.956	16.224	73316	17	19.475	17.694
73029	11	23.154	12.324	73101	36	0.500	14.956	73173	21	16.698	15.830	73245	25	16.152	16.278	73317	13	20.540	17.050
73030	10	23.752	12.990	73102	24	2.762	14.779	73174	40	17.077	15.846	73246	17	16.445	16.955	73318	28	21.120	17.560
73031	12	23.842	12.084	73103	17	3.640	14.437	73175	11	17.374	15.560	73247	10	16.872	16.850	73319	23	21.421	17.316
73032	12	24.386	12.675	73104	31	4.483	14.944	73176	32	17.375	15.203	73248	16	16.875	16.826	73320	22	21.954	17.258
73033	12	25.210	12.429	73105	13	4.692	14.420	73177	10	17.668	15.432	73249	12	17.426	16.413	73321	11	21.955	17.814
73034	20	0.218	13.797	73106	13	5.256	14.074	73178	11	18.156	15.241	73250	18	17.513	16.634	73322	25	22.256	17.323
73035	24	0.588	13.986	73107	10	6.022	14.590	73179	19	18.885	15.989	73251	22	17.590	16.634	73323	10	22.854	17.836
73036	16	0.936	13.162	73108	12	6.125	14.896	73180	10	19.029	15.892	73252	12	17.594	16.362	73324	10	23.052	17.985
73037	10	1.279	13.218	73109	20	7.103	14.988	73181	24	19.078	15.344	73253	15	17.620	16.317	73325	25	23.113	17.330
73038	14	1.368	13.136	73110	14	8.840	14.850	73182	10	19.105	15.088	73254	15	18.124	16.970	73326	16	23.179	17.668
73039	20	1.564	13.280	73111	25	9.012	14.317	73183	26	19.512	15.412	73255	15	18.315	16.924	73327	19	23.275	17.168
73040	10	1.676	13.787	73112	12	9.150	14.156	73184	13	20.002	15.452	73256	25	18.492	16.438	73328	14	23.312	17.440
73041	10	2.227	13.251	73113	25	9.542	14.945	73185	20	20.052	15.106	73257	13	19.042	16.086	73329	129	23.662	17.905
73042	11	2.561	13.362	73114	17	10.208	14.674	73186	26	20.053	15.842	73258	32	21.766	16.490	73330	14	23.668	17.752
73043	12	2.706	13.940	73115	12	10.482	14.288	73187	18	20.344	15.012	73259	10	21.776	16.142	73331	10	23.984	17.499
73044	12	3.295	13.332	73116	17	10.636	14.755	73188	11	20.433	15.202	73260	10	22.166	16.324	73332	30	24.145	17.900
73045	12	3.485	13.205	73117	16	10.962	14.686	73189	34	20.792	15.410	73261	16	22.260	16.410	73333	10	24.590	17.136
73046	14	4.333	13.949	73118	14	11.344	14.536	73190	20	21.110	15.637	73262	25	22.415	16.022	73334	12	25.066	17.102
73047	10	4.474	13.288	73119	22	11.425	14.171	73191	11	21.908	15.177	73263	12</						



73346	27	3.219	18.262	73418	14	3.909	19.178	73490	20	3.364	20.260	73562	11	0.798	21.652	73634	12	21.416	21.606
73347	10	3.314	18.836	73419	10	4.242	19.592	73491	10	3.739	20.601	73563	20	1.174	21.099	73635	22	22.180	21.075
73348	22	3.462	18.627	73420	21	4.369	19.254	73492	24	3.752	20.925	73564	34	1.432	21.839	73636*	60	22.575	21.485
73349	20	3.660	18.424	73421	25	4.536	19.814	73493	12	4.350	20.908	73565	16	1.679	21.665	73637	14	23.001	21.959
73350	12	3.855	18.418	73422*	44	4.724	19.432	73494	10	4.908	20.140	73566	12	2.300	21.350	73638	26	23.388	21.882
73351	16	4.360	18.702	73423	18	4.932	19.256	73495	13	5.013	20.384	73567	12	3.104	21.376	73639	15	23.456	21.086
73352	16	5.300	18.565	73424	16	5.520	19.354	73496	39	5.319	20.526	73568	13	3.188	21.115	73640	12	24.638	21.818
73353	38	5.782	18.888	73425	15	5.575	19.722	73497	12	5.550	20.340	73569	23	3.795	21.275	73641	11	24.967	21.668
73354	20	5.996	18.956	73426	12	6.074	19.588	73498	11	5.566	20.665	73570	30	4.120	21.532	73642	10	25.243	21.255
73355	26	7.384	18.866	73427	40	6.738	19.007	73499	15	5.980	20.664	73571	24	4.200	21.888	73643	11	25.414	21.406
73356	11	7.632	18.266	73428	15	6.914	19.780	73500	10	6.015	20.948	73572	16	4.622	21.211	73644	11	0.003	22.775
73357	33	8.588	18.510	73429	19	6.972	19.295	73501	10	6.089	20.570	73573	10	4.818	21.404	73645	12	0.776	22.896
73358	17	8.888	18.260	73430	11	7.310	19.281	73502	12	6.097	20.613	73574	15	4.903	21.198	73646	20	0.947	22.829
73359	18	9.271	18.432	73431	14	8.264	19.304	73503	15	6.362	20.300	73575	10	5.015	21.654	73647	20	3.074	22.922
73360	10	9.455	18.664	73432	16	8.672	19.634	73504	10	6.388	20.686	73576	10	5.420	21.440	73648*	69	3.575	22.115
73361	20	9.735	18.315	73433	32	9.130	19.620	73505	15	6.436	20.724	73577	18	5.618	21.477	73649	10	3.646	22.644
73362	19	10.076	18.478	73434	24	9.388	19.856	73506	25	7.800	20.548	73578	20	5.664	21.260	73650	12	3.674	22.039
73363	32	10.725	18.136	73435	22	9.410	19.965	73507	10	8.464	20.746	73579	10	5.678	21.606	73651	10	3.843	22.691
73364	10	10.900	18.561	73436	10	9.488	19.526	73508	12	8.682	20.622	73580	11	5.854	21.165	73652	12	3.844	22.528
73365	28	11.074	18.098	73437	22	9.850	19.410	73509	12	8.685	20.645	73581	29	6.408	21.940	73653	11	4.715	22.814
73366	18	11.118	18.004	73438	19	10.122	19.603	73510	11	8.711	20.204	73582	31	6.945	21.944	73654	21	4.880	22.285
73367	12	11.317	18.634	73439	13	10.779	19.121	73511	12	9.522	20.250	73583	13	7.403	21.365	73655	28	5.223	22.712
73368	13	11.425	18.338	73440	10	10.974	19.736	73512	25	10.874	20.236	73584	12	7.425	21.649	73656	40	5.479	22.416
73369	12	11.484	18.647	73441	10	11.236	19.576	73513	16	11.510	20.294	73585	11	7.760	21.500	73657	13	5.844	22.885
73370	36	11.568	18.960	73442	14	11.550	19.618	73514	12	11.848	20.236	73586	13	7.895	21.459	73658	20	6.440	22.926
73371	15	11.933	18.331	73443	22	11.594	19.284	73515	17	11.948	20.282	73587	11	8.044	21.675	73659	26	6.894	22.996
73372	14	12.245	18.116	73444	31	11.962	19.026	73516	13	12.146	20.934	73588	20	8.115	21.316	73660*	39	7.122	22.140
73373	32	12.595	18.119	73445	10	12.140	19.450	73517	25	12.176	20.150	73589*	38	8.261	21.660	73661	21	7.566	22.165
73374	12	13.126	18.796	73446	15	12.180	19.419	73518	22	12.660	20.646	73590	26	8.352	21.092	73662	11	7.925	22.849
73375	36	13.315	18.440	73447	11	12.217	19.435	73519	14	13.050	20.738	73591	12	8.442	21.751	73663	12	8.420	22.840
73376	15	13.590	18.414	73448	22	12.426	19.660	73520	17	13.212	20.636	73592	17	8.885	21.545	73664	13	8.588	22.208
73377	12	13.991	18.598	73449	12	13.438	19.719	73521	14	13.302	20.710	73593	40	9.135	21.644	73665	12	9.471	22.734
73378	12	14.256	18.483	73450*	52	13.878	19.732	73522	10	13.439	20.412	73594	24	9.208	21.859	73666	12	9.545	22.267
73379	32	14.439	18.348	73451	10	14.014	19.224	73523	15	13.728	20.532	73595	10	9.459	21.224	73667	13	9.731	22.471
73380	28	15.150	18.656	73452	11	14.600	19.890	73524	10	14.230	20.447	73596	22	9.506	21.812	73668	12	10.106	22.780
73381	16	16.354	18.776	73453	27	15.532	19.430	73525	13	14.550	20.824	73597	10	9.804	21.352	73669	10	10.382	22.184
73382	30	16.838	18.574	73454	10	16.095	19.108	73526	10	14.596	20.114	73598	22	9.848	21.244	73670	12	10.546	22.586
73383	20	17.162	18.550	73455	36	16.380	19.404	73527	14	14.905	20.949	73599	10	10.347	21.328	73671	23	10.664	22.982
73384	15	17.525	18.812	73456	28	17.310	19.968	73528	10	14.955	20.826	73600	25	10.671	21.450	73672	12	10.921	22.146
73385	10	18.085	18.744	73457	10	17.626	19.434	73529	10	15.000	20.431	73601	10	10.719	21.118	73673	11	11.183	22.252
73386	10	18.220	18.331	73458	25	17.994	19.732	73530	12	15.962	20.016	73602	17	10.798	21.204	73674	10	11.374	22.536
73387	10	18.341	18.710	73459	11	18.024	19.954	73531	12	16.290	20.116	73603	14	10.902	21.949	73675	16	11.455	22.372
73388	45	18.665	18.455	73460	10	18.114	19.520	73532	10	16.396	20.279	73604	20	10.922	21.854	73676	10	11.831	22.638
73389	31	19.304	18.208	73461	13	18.728	19.809	73533	22	17.220	20.386	73605	10	11.365	21.886	73677	10	13.366	22.924
73390	15	19.437	18.973	73462	16	19.274	19.814	73534	16	17.231	20.938	73606	25	11.380	21.542	73678	20	13.449	22.028
73391	10	19.582	18.499	73463	17	19.621	19.262	73535	10	17.534	20.649	73607	17	11.890	21.631	73679	25	13.530	22.754
73392	10	19.728	18.821	73464	30	20.142	19.916	73536	11	18.029	20.808	73608	14	11.978	21.535	73680	11	13.775	22.790
73393	13	19.756	18.798	73465	10	20.870	19.327	73537	25	18.216	20.724	73609	12	12.066	21.254	73681	10	14.244	22.169
73394	11	20.057	18.734	73466	12	21.270	19.438	73538	40	18.684	20.350	73610	12	12.379	21.681	73682	12	14.298	22.987
73395	15	20.704	18.077	73467	10	21.334	19.264	73539	10	19.500	20.743	73611	15	13.430	21.666	73683	22	14.590	22.920
73396	10	20.791	18.416	73468	25	21.916	19.860	73540	13	19.529	20.250	73612	12	14.051	21.748	73684	15	14.897	22.235
73397	10	21.343	18.574	73469	16	22.410	19.030	73541	34	20.014	20.024	73613	12	14.456	21.452	73685	12	16.054	22.929
73398	12	21.355	18.142	73470*	70	22.428	19.071	73542	12	20.030	20.149	73614	14	14.552	21.528	73686	27	16.244	22.728
73399	10	22.457	18.663	73471	13	23.348	19.170	73543	27	20.056	20.616	73615	10	15.214	21.836	73687	36	16.279	22.384
73400	12	22.456	18.823	73472	31	23.666	19.804	73544	10	20.459	20.361	73616	11	15.224	21.426	73688	10	16.416	22.464
73401*	48	23.026	18.130	73473	11	24.280	19.214	73545	12	20.546	20.256	73617	42	16.124	21.134	73689	12	17.138	22.224
73402	11	23.563	18.360	73474	25	24.300	19.146	73546	12	21.010	20.944	73618	30	16.260	21.328	73690	12	17.320	22.396
73403	11	24.278	18.551	73475	12	24.830	19.266	73547*	60	21.236	20.892	73619	20	16.414	21.484	73691	33	18.104	22.968
73404	15	24.284	18.392	73476	24	25.818	19.628	73548	24	21.644	20.981	73620	11	16.570	21.641	73692	10	18.408	22.293
73405	51	25.027	18.440	73477*	62	0.490	20.762	73549	18	21.745	20.359	73621	18	16.930	21.883	73693	12	18.425	22.258
73406	13	25.560	18.444	73478	21	0.566	20.942	73550	12	22.066	20.466	73622	10	17.400	21.720	73694	28	19.543	22.886
73407	13	25.825	18.236	73479	10	0.836	20.385	73551	10	22.254	20.916	73623	12	17.820	21.73				



73700	26	25.616	22.994	73778	12	1.709	24.576	73850	11	4.577	25.376	R.A. 18 <sup>h</sup> 36 <sup>m</sup>  Plate 2013, 1922 Oct. 14  Provisional Constants.  A B C --01726 + 02348 --4264  D E F --02332 - 01730 +1310  Mag = 16.9 - 1.05√d	74006	41	24.884	0.196
73707	19	0.107	23.957	73779	25	1.843	24.206	73851	12	4.905	25.845		74007	22	24.992	0.908
73708	11	0.210	23.328	73780	16	2.244	24.332	73852	10	5.686	25.968		74008	12	25.847	0.596
73709	28	0.216	23.103	73781	12	3.218	24.308	73853	10	5.836	25.520		74009	12	25.916	0.752
73710	12	0.827	23.396	73782	43	3.590	24.647	73854	40	6.583	25.894		74010	9	0.288	1.506
73711	15	2.145	23.704	73783	32	3.753	24.468	73855	10	6.620	25.734		74011	12	0.394	1.726
73712	11	2.818	23.041	73784	15	3.848	24.974	73856	10	6.814	25.396		74012	8	0.577	1.714
73713	11	3.764	23.814	73785	18	3.850	24.359	73857	10	7.032	25.272		74013	9	2.460	1.678
73714	12	4.396	23.075	73786	11	4.231	24.836	73858	10	7.307	25.348		74014	9	2.778	1.246
73715	10	4.901	23.612	73787	10	4.811	24.790	73859	10	7.455	25.539		74015	20	3.826	1.960
73716	22	5.523	23.295	73788	12	5.070	24.907	73860	20	7.695	25.974	74016	13	5.332	1.468	
73717	23	5.815	23.926	73789	12	5.226	24.452	73861	16	7.750	25.870	74017	9	6.771	1.300	
73718	10	6.518	23.752	73790	22	6.104	24.545	73862	59	8.082	25.669	74018	9	6.938	1.486	
73719	11	6.722	23.877	73791	20	7.224	24.670	73863	26	8.165	25.559	74019	8	7.213	1.486	
73720	12	6.856	23.350	73792	11	7.356	24.062	73864	10	8.266	25.242	74020	9	7.462	1.950	
73721	11	6.950	23.761	73793	42	8.883	24.076	73865	14	8.899	25.053	74021	18	7.906	1.908	
73722	22	7.604	23.682	73794	15	8.906	24.018	73866	22	9.696	25.023	74022	21	7.992	1.633	
73723	20	8.280	23.527	73795	20	9.015	24.898	73867	23	10.063	25.674	74023	20	9.180	1.358	
73724	10	8.510	23.256	73796	44	10.413	24.969	73868	10	10.116	25.302	74024	8	9.199	1.350	
73725	29	8.752	23.840	73797	16	10.830	24.074	73869	27	10.210	25.278	74025	33	9.417	1.031	
73726	15	8.960	23.582	73798	19	11.440	24.566	73870	11	10.734	25.889	74026	26	9.424	1.652	
73727	26	9.430	23.360	73799	12	12.384	24.660	73871	11	11.075	25.058	74027	23	9.656	1.765	
73728	11	9.574	23.258	73800	10	12.522	24.741	73872	10	11.276	25.234	74028	16	9.997	1.838	
73729	11	9.784	23.756	73801	20	12.729	24.196	73873	11	11.438	25.215	74029	8	10.810	1.442	
73730	12	9.841	23.234	73802	15	12.800	24.150	73874	17	11.833	25.419	74030	9	11.232	1.869	
73731	25	10.258	23.130	73803	12	13.310	24.666	73875	22	11.898	25.602	74031	8	11.258	1.076	
73732	20	10.510	23.202	73804	10	14.311	24.540	73876	22	12.112	25.093	74032	10	11.636	1.552	
73733	40	10.692	23.425	73805	12	14.561	24.358	73877	40	12.310	25.808	74033	13	11.898	1.872	
73734	29	10.924	23.914	73806	19	14.636	24.380	73878	12	12.760	25.661	74034	41	12.422	1.533	
73735	32	10.985	23.105	73807	10	14.909	24.406	73879	27	13.646	25.020	74035	24	12.520	1.284	
73736	12	11.022	23.788	73808	38	15.690	24.292	73880	26	13.985	25.430	74036	11	12.605	1.848	
73737	12	11.080	23.110	73809	51	16.017	24.764	73881	11	14.216	25.059	74037	9	12.901	1.042	
73738	15	11.395	23.698	73810	10	16.600	24.670	73882	28	14.424	25.676	74038	30	12.946	1.955	
73739	10	11.408	23.898	73811	19	16.975	24.932	73883	14	14.552	25.696	74039	9	15.242	1.343	
73740	24	12.031	23.420	73812	16	17.254	24.655	73884	24	14.575	25.195	74040	10	15.583	1.879	
73741	12	12.700	23.216	73813	12	17.288	24.284	73885	20	14.718	25.141	74041	34	16.028	1.396	
73742	26	12.784	23.550	73814	36	17.697	24.830	73886	11	14.754	25.016	74042	12	17.092	1.336	
73743	12	13.366	23.424	73815	10	17.740	24.706	73887	10	14.790	25.022	74043	9	18.206	1.976	
73744	23	13.995	23.795	73816	20	17.984	24.706	73888	10	15.206	25.554	74044	30	19.916	1.026	
73745	26	14.495	23.133	73817	31	18.298	24.510	73889	33	15.400	25.486	74045	14	20.849	1.478	
73746	12	14.920	23.126	73818	28	18.400	24.023	73890	11	15.470	25.571	74046	8	21.868	1.892	
73747	10	15.496	23.613	73819	30	18.875	24.740	73891	12	15.678	25.019	74047	43	22.342	1.316	
73748	11	16.974	23.808	73820	29	20.547	24.620	73892	11	16.018	25.456	74048	31	23.242	1.684	
73749	20	17.035	23.206	73821	15	20.596	24.442	73893	26	16.276	25.220	74049	9	23.613	1.861	
73750	11	17.076	23.086	73822	10	21.829	24.085	73894	20	16.362	25.911	74050	8	23.706	1.684	
73751	18	17.345	23.904	73823	10	21.832	24.365	73895	12	18.754	25.161	73979	10	14.224	0.508	
73752	17	17.896	23.510	73824	10	23.948	24.883	73896	10	19.089	25.184	73980	18	14.716	0.093	
73753	18	18.223	23.134	73825	12	24.066	24.154	73897	13	19.114	25.602	73981	10	14.892	0.688	
73754	12	18.418	23.848	73826	10	24.090	24.106	73898	10	19.379	25.914	73982	8	14.944	0.339	
73755	12	18.429	23.947	73827	13	25.110	24.540	73899	10	19.814	25.116	73983	12	15.513	0.754	
73756	11	18.635	23.920	73828	30	0.194	25.740	73900	14	19.982	25.250	73984	9	15.558	0.573	
73757	10	18.640	23.957	73829	10	0.224	25.075	73901	10	21.114	25.398	73985	21	17.198	0.962	
73758	24	18.754	23.558	73830	40	0.409	25.375	73902	22	21.265	25.298	73986	18	17.760	0.506	
73759	15	18.901	23.640	73831	17	0.452	25.493	73903	42	22.295	25.416	73987	65	17.967	0.590	
73760	19	19.015	23.042	73832	17	1.248	25.567	73904	13	22.542	25.566	73988	14	18.078	0.298	
73761	12	19.705	23.288	73833	13	1.311	25.414	73905	12	24.119	25.156	73989	13	18.256	0.170	
73762	14	20.035	23.051	73834	15	1.405	25.384	73906	15	24.142	25.940	73990	46	18.344	0.799	
73763	11	20.076	23.276	73835	12	1.774	25.233	73907	55	24.578	25.896	73991	9	18.593	0.264	
73764	19	20.176	23.293	73836	13	2.094	25.401	73908	18	25.848	25.795	73992	10	18.663	0.335	
73765	12	20.317	23.152	73837	10	2.315	25.441	73909	15	25.870	25.197	73993	26	18.837	0.664	
73766	20	20.42														



74078	20	12.026	2.916	74150	13	7.912	4.652	74222	16	18.508	5.327	74294	8	4.584	7.443	74366	17	22.560	8.767
74079	13	12.205	2.563	74151	11	7.925	4.594	74223	8	18.680	5.922	74295	8	5.203	7.564	74367	8	22.677	8.580
74080	12	15.686	2.983	74152	19	8.877	4.802	74224	22	18.928	5.709	74296	14	8.043	7.653	74368	10	22.706	8.448
74081	32	15.991	2.248	74153	13	9.184	4.302	74225	24	19.102	5.508	74297	12	8.786	7.199	74369	13	23.230	8.499
74082	19	17.319	2.256	74154	13	9.956	4.073	74226	14	19.616	5.023	74298	8	8.878	7.142	74370	12	23.585	8.116
74083	20	17.802	2.412	74155	9	9.966	4.990	74227	18	19.888	5.130	74299	26	9.240	7.617	74371	10	23.732	8.009
74084	11	17.901	2.884	74156	15	10.073	4.898	74228	14	20.690	5.522	74300*	51	9.574	7.824	74372	37	25.274	8.257
74085	14	18.954	2.477	74157	10	10.230	4.223	74229	12	20.760	5.214	74301	13	10.524	7.805	74373	16	0.459	9.393
74086	12	18.956	2.356	74158	33	10.726	4.136	74230	14	20.963	5.702	74302	29	11.766	7.334	74374	10	0.462	9.212
74087	43	19.376	2.658	74159	9	11.056	4.794	74231	22	21.162	5.484	74303	12	12.740	7.996	74375	8	1.036	9.320
74088	9	19.810	2.980	74160	10	11.335	4.368	74232	8	22.077	5.234	74304	21	12.768	7.662	74376	13	2.707	9.177
74089	24	20.694	2.244	74161	9	11.315	4.875	74233	20	22.114	5.806	74305	18	13.623	7.747	74377	38	2.738	9.948
74090	33	21.352	2.382	74162	12	11.446	4.892	74234	13	22.623	5.118	74306	19	14.364	7.035	74378	11	4.005	9.012
74091	12	21.408	2.124	74163	28	11.969	4.492	74235	8	23.482	5.544	74307	8	15.252	7.436	74379	8	4.458	9.543
74092	14	21.478	2.020	74164	9	12.192	4.934	74236	11	24.116	5.052	74308	20	16.424	7.816	74380	36	4.846	9.428
74093	24	0.142	3.550	74165	8	13.052	4.716	74237	17	24.828	5.805	74309	8	17.074	7.725	74381	23	5.148	9.876
74094	11	0.834	3.986	74166	8	13.978	4.078	74238	9	25.546	5.048	74310	9	17.492	7.217	74382	14	5.177	9.437
74095	23	1.653	3.731	74167	32	14.346	4.722	74239	9	25.730	5.239	74311	13	18.886	7.853	74383	8	5.188	9.390
74096	10	2.178	3.978	74168	18	14.907	4.098	74240	12	1.066	6.858	74312	17	19.098	7.530	74384	9	6.534	9.422
74097	9	3.727	3.922	74169	24	15.436	4.820	74241	8	2.415	6.297	74313	8	19.631	7.306	74385*	64	7.014	9.976
74098	23	4.112	3.632	74170	12	16.152	4.128	74242	18	2.614	6.827	74314	10	19.692	7.227	74386	16	7.604	9.366
74099	18	5.098	3.380	74171	8	16.458	4.912	74243	38	2.794	6.343	74315	39	21.388	7.272	74387	8	7.871	9.830
74100	20	5.702	3.716	74172	9	16.552	4.076	74244	27	3.287	6.031	74316	10	22.232	7.098	74388	20	8.548	9.642
74101	40	6.929	3.318	74173*	45	17.204	4.432	74245	13	3.739	6.306	74317	15	23.026	7.168	74389	16	9.217	9.068
74102	11	7.263	3.106	74174	35	18.117	4.346	74246	13	4.216	6.162	74318	18	23.518	7.890	74390	11	10.486	9.096
74103	17	7.445	3.152	74175*	46	19.022	4.381	74247*	64	4.932	6.004	74319	24	23.597	7.229	74391	21	10.690	9.010
74104	15	8.418	3.166	74176	20	20.190	4.684	74248	13	5.907	6.276	74320	13	24.515	7.625	74392	25	12.600	9.656
74105	13	9.437	3.600	74177	9	20.373	4.876	74249	25	7.740	6.087	74321	16	0.426	8.370	74393	22	13.288	9.662
74106	12	9.726	3.137	74178	8	20.684	4.352	74250	8	8.413	6.613	74322	18	1.394	8.366	74394	25	13.310	9.532
74107	30	11.596	3.548	74179	9	21.214	4.636	74251	19	8.697	6.921	74323	12	1.845	8.361	74395	24	14.027	9.604
74108	9	11.657	3.909	74180	32	21.265	4.478	74252	11	9.102	6.506	74324	20	2.058	8.747	74396	20	14.161	9.926
74109	9	11.844	3.664	74181*	43	21.876	4.689	74253	10	9.923	6.330	74325	21	2.842	8.206	74397	8	14.287	9.428
74110	18	12.060	3.450	74182	8	21.917	4.411	74254	8	10.245	6.453	74326	20	3.262	8.368	74398	15	15.208	9.476
74111	8	12.373	3.952	74183	23	22.282	4.444	74255	8	10.268	6.670	74327	19	4.234	8.027	74399	9	15.516	9.435
74112	20	15.330	3.330	74184	8	23.408	4.618	74256	10	10.290	6.372	74328	19	4.538	8.216	74400	25	15.637	9.786
74113	13	16.102	3.736	74185	22	23.661	4.094	74257	18	11.054	6.800	74329	8	4.928	8.674	74401	19	15.856	9.712
74114	25	16.114	3.258	74186	32	23.688	4.970	74258	16	11.382	6.737	74330	8	4.962	8.574	74402	19	16.339	9.283
74115	13	16.370	3.472	74187	42	24.126	4.323	74259	15	11.384	6.857	74331	8	4.988	8.556	74403	14	16.718	9.656
74116	20	16.372	3.962	74188	12	24.388	4.570	74260	21	11.458	6.150	74332	8	5.096	8.196	74404	19	17.863	9.868
74117	8	17.328	3.430	74189*	40	25.170	4.370	74261	24	11.482	6.100	74333	12	5.328	8.090	74405	9	18.425	9.557
74118	23	17.667	3.776	74190	8	25.966	4.850	74262	27	12.380	6.373	74334	12	6.400	8.405	74406	10	18.563	9.337
74119	10	17.733	3.550	74191	8	1.472	5.322	74263	8	13.316	6.068	74335	9	6.542	8.735	74407	13	19.242	9.157
74120	13	18.015	3.187	74192	8	1.476	5.720	74264	10	14.520	6.364	74336*	47	8.972	8.538	74408	10	19.776	9.207
74121	8	18.593	3.765	74193	39	2.110	5.198	74265	9	15.647	6.226	74337	13	10.494	8.442	74409	8	19.828	9.524
74122	10	19.246	3.566	74194*	40	4.018	5.480	74266	18	16.008	6.751	74338	22	10.550	8.388	74410	23	20.932	9.616
74123	14	19.861	3.003	74195	11	4.550	5.028	74267	14	16.282	6.812	74339	14	10.868	8.228	74411	20	21.702	9.510
74124	14	20.065	3.627	74196	9	5.484	5.026	74268	22	17.367	6.770	74340	15	12.158	8.727	74412*	62	21.794	9.472
74125	33	20.106	3.588	74197	17	5.536	5.246	74269	19	17.492	6.904	74341	13	12.228	8.562	74413	10	21.992	9.290
74126	10	20.157	3.762	74198	8	5.626	5.748	74270	20	18.248	6.038	74342	8	12.473	8.092	74414	10	24.930	9.684
74127	12	21.366	3.652	74199	20	6.574	5.260	74271	10	18.796	6.192	74343	10	13.324	8.542	74415	12	1.681	10.392
74128	21	22.052	3.265	74200	9	7.014	5.200	74272	20	19.476	6.824	74344	18	13.480	8.258	74416	12	2.881	10.296
74129	21	23.118	3.354	74201	34	7.297	5.456	74273	10	19.694	6.866	74345*	56	13.490	8.020	74417	12	2.968	10.928
74130	26	23.484	3.361	74202	20	8.416	5.761	74274	19	19.826	6.194	74346*	36	13.603	8.386	74418	24	3.326	10.940
74131	9	24.320	3.821	74203	46	8.664	5.577	74275	11	19.848	6.368	74347	14	13.855	8.212	74419	8	3.389	10.432
74132	11	0.733	4.216	74204	8	8.908	5.044	74276	13	20.384	6.918	74348	8	13.859	8.088	74420	9	6.609	10.502
74133	18	1.391	4.738	74205	8	8.910	5.078	74277	8	21.166	6.436	74349	12	13.892	8.964	74421	49	6.625	10.776
74134	12	1.786	4.292	74206	17	9.567	5.989	74278	11	21.878	6.998	74350	20	15.674	8.128	74422	20	7.699	10.882
74135	8	2.310	4.834	74207	8	9.938	5.381	74279	16	22.877	6.774	74351	21	15.886	8.678	74423	15	8.245	10.908
74136	16	2.632	4.851	74208	11	10.244	5.278	74280	41	23.870	6.114	74352	21	16.062	8.688	74424	10	8.432	10.199
74137	40	2.686	4.390	74209	10	11.100	5.450	74281	8	24.540	6.346	74353	12	16.830	8.424	74425	9	8.510	10.765
74138	8	3.250	4.287	74210	18	11.242	5.994	74282	8	25.665	6.142	74354	11	16.919	8.814	74426	8	9.253	10.902
74139	30	3.407	4.896	74211	31	11.902	5.669	74283	21	12.96	7.703	74355	9	18.783	8.182	74427	17	10.627	10.877
74140	9	3.636	4.086	74212	30	11.963	5.929	74284	9	1.318	7.376	74356	12	19.514	8.666	74428	27	11.092	10.855
74141	9	3.975	4.660	74213	9	12.293	5.181	74285	8	1.416	7.944	74357	8						



74438	8	17.947	10.214	74510	11	18.817	12.935	74582	31	11.230	14.354	74654	34	7.589	16.440	74726	12	19.174	17.261
74439	9	21.512	10.079	74511	14	19.082	12.216	74583	13	11.733	14.627	74655	40	7.707	16.356	74727	12	19.417	17.142
74440	10	21.540	10.809	74512	16	20.450	12.616	74584	14	12.916	14.803	74656	8	8.386	16.756	74728*	47	20.865	17.918
74441	17	22.256	10.262	74513	12	21.046	12.213	74585	11	13.126	14.480	74657	8	8.882	16.524	74729	14	21.611	17.244
74442	13	22.643	10.334	74514	20	21.250	12.688	74586	12	13.552	14.043	74658	11	8.921	16.533	74730	18	0.182	18.030
74443	15	24.146	10.329	74515	27	22.236	12.094	74587	12	13.760	14.778	74659	10	9.464	16.188	74731*	49	0.968	18.818
74444*	38	24.414	10.923	74516	13	22.846	12.363	74588	20	13.870	14.318	74660	8	9.772	16.358	74732	15	1.038	18.018
74445	22	24.420	10.942	74517	10	23.074	12.602	74589	32	14.166	14.666	74661	12	12.176	16.469	74733	10	1.112	18.354
74446	9	0.176	11.380	74518	14	23.446	12.653	74590	38	14.854	14.487	74662	8	12.465	16.786	74734*	118	1.588	18.576
74447	17	1.164	11.199	74519	8	24.177	12.392	74591	33	16.071	14.447	74663	10	13.456	16.996	74735	27	2.083	18.562
74448	24	1.412	11.202	74520	9	25.527	12.220	74592	23	16.079	14.674	74664	9	15.766	16.122	74736	12	3.770	18.854
74449	14	2.153	11.825	74521	17	1.338	13.999	74593	22	17.089	14.874	74665	26	15.956	16.076	74737	17	4.743	18.246
74450	13	3.806	11.696	74522	9	1.573	13.664	74594	10	17.482	14.081	74666	19	16.127	16.518	74738	13	6.382	18.176
74451	10	3.817	11.360	74523	9	2.198	13.333	74595	40	18.044	14.632	74667	14	16.190	16.846	74739	8	6.808	18.883
74452	8	4.610	11.726	74524	8	2.273	13.312	74596	9	18.200	14.228	74668	31	16.347	16.338	74740	14	7.080	18.303
74453	9	4.784	11.513	74525	8	2.518	13.116	74597	32	18.590	14.982	74669	9	16.387	16.837	74741	19	8.031	18.868
74454	8	5.892	11.774	74526	15	2.643	13.964	74598	14	20.278	14.920	74670	20	16.826	16.762	74742	10	9.072	18.786
74455	18	6.774	11.957	74527	8	3.014	13.064	74599	32	21.563	14.793	74671	10	17.733	16.772	74743	15	9.474	18.487
74456	9	6.899	11.116	74528	9	4.520	13.934	74600	30	21.898	14.740	74672	8	18.023	16.677	74744	8	9.932	18.846
74457	20	7.022	11.010	74529	11	4.588	13.161	74601	8	22.046	14.255	74673	19	18.672	16.201	74745	12	10.832	18.722
74458	22	7.158	11.170	74530	10	5.593	13.864	74602	35	22.480	14.962	74674	30	19.174	16.737	74746	12	12.012	18.030
74459	18	8.502	11.668	74531	12	5.977	13.994	74603	19	22.560	14.241	74675	32	19.908	16.867	74747	17	12.047	18.187
74460	20	8.612	11.189	74532	32	7.223	13.553	74604	10	24.276	14.593	74676	11	19.913	16.549	74748	36	13.194	18.705
74461	20	9.448	11.873	74533*	67	7.390	13.395	74605	8	24.538	14.780	74677	20	20.220	16.650	74749	12	13.277	18.588
74462	20	11.258	11.531	74534	26	9.183	13.422	74606	8	24.816	14.632	74678	21	20.272	16.325	74750	8	14.400	18.982
74463	23	11.681	11.264	74535	11	9.733	13.294	74607	18	0.280	15.992	74679	25	20.580	16.241	74751	14	15.482	18.380
74464	18	12.207	11.303	74536	20	10.266	13.360	74608	9	0.438	15.737	74680	8	21.386	16.873	74752	23	17.327	18.140
74465	32	12.892	11.034	74537	13	11.067	13.832	74609	10	0.548	15.542	74681	10	21.419	16.878	74753	12	18.313	18.498
74466	11	13.526	11.644	74538	23	11.412	13.058	74610	8	1.309	15.287	74682	8	22.287	16.364	74754	36	19.085	18.574
74467	15	14.173	11.900	74539	17	11.586	13.796	74611*	45	3.047	15.905	74683	12	22.640	16.490	74755	20	20.136	18.582
74468	9	14.780	11.025	74540	31	13.265	13.634	74612	21	3.568	15.017	74684	11	23.214	16.108	74756	8	21.654	18.766
74469	12	15.638	11.040	74541	13	14.535	13.246	74613	10	3.691	15.244	74685	33	23.278	16.574	74757	16	21.811	18.255
74470	15	15.715	11.944	74542	17	15.324	13.684	74614	8	4.148	15.766	74686	18	23.746	16.331	74758	9	23.166	18.227
74471	13	15.762	11.941	74543	30	15.593	13.793	74615	27	4.339	15.559	74687	20	23.799	16.324	74759	12	23.498	18.751
74472	11	16.142	11.982	74544	8	17.206	13.194	74616	8	4.675	15.388	74688	11	0.163	17.116	74760	31	25.474	18.226
74473	8	18.246	11.069	74545	12	18.266	13.998	74617	14	6.548	15.762	74689	33	0.497	17.078	74761	11	0.376	19.733
74474	10	18.798	11.626	74546	10	18.434	13.303	74618	19	8.713	15.095	74690	8	0.624	17.643	74762*	61	0.390	19.773
74475	11	18.800	11.186	74547	9	18.668	13.758	74619	16	9.103	15.452	74691	24	0.770	17.552	74763	9	0.416	19.524
74476	24	19.624	11.037	74548	28	18.930	13.241	74620	38	9.320	15.308	74692	14	1.196	17.852	74764	11	1.316	19.852
74477	12	19.983	11.879	74549	39	19.150	13.062	74621	36	9.446	15.654	74693	16	1.277	17.158	74765	12	2.232	19.050
74478	8	20.579	11.728	74550	13	19.733	13.103	74622	8	9.772	15.824	74694	23	1.719	17.410	74766	9	2.234	19.210
74479*	38	21.197	11.819	74551*	55	20.017	13.312	74623	16	10.549	15.683	74695	14	1.910	17.585	74767	19	2.268	19.805
74480*	46	22.246	11.092	74552	9	21.504	13.757	74624	25	10.698	15.703	74696	23	1.916	17.036	74768	8	2.801	19.909
74481	9	22.372	11.986	74553*	91	21.872	13.642	74625	8	13.246	15.517	74697	11	2.148	17.456	74769	44	2.976	19.077
74482	13	22.523	11.426	74554	30	23.186	13.744	74626*	37	14.298	15.665	74698	11	2.190	17.417	74770	8	3.512	19.070
74483	21	23.776	11.697	74555	24	23.226	13.713	74627	15	15.632	15.172	74699	14	2.577	17.306	74771	9	3.952	19.330
74484	11	23.950	11.900	74556	11	23.406	13.030	74628	32	15.730	15.183	74700	12	2.650	17.594	74772	9	4.238	19.098
74485	10	25.124	11.418	74557	11	23.699	13.766	74629	16	16.188	15.372	74701	10	2.984	17.744	74773	21	4.447	19.212
74486	19	25.208	11.520	74558	14	23.938	13.520	74630	31	16.823	15.404	74702	10	4.922	17.669	74774	8	4.874	19.258
74487	8	0.548	12.420	74559	13	0.042	14.632	74631	20	18.297	15.620	74703	33	5.111	17.153	74775	8	6.469	19.724
74488	11	0.793	12.682	74560	8	1.162	14.254	74632	21	18.397	15.808	74704	10	5.145	17.586	74776	25	6.558	19.556
74489	9	0.794	12.774	74561	8	1.258	14.562	74633	20	18.691	15.421	74705	12	6.116	17.801	74777	28	6.746	19.502
74490	8	1.640	12.752	74562	14	1.262	14.513	74634	15	19.352	15.352	74706	8	6.666	17.108	74778	10	7.350	19.584
74491	22	2.506	12.079	74563	11	2.036	14.245	74635	10	21.682	15.542	74707	23	7.171	17.317	74779	9	7.390	19.428
74492	8	2.600	12.050	74564	12	3.570	14.575	74636	20	21.962	15.850	74708	22	7.640	17.046	74780	20	7.427	19.168
74493	9	2.759	12.239	74565*	113	4.232	14.424	74637	22	23.795	15.377	74709	29	7.800	17.816	74781	8	7.653	19.564
74494	21	2.868	12.199	74566	25	4.270	14.769	74638	15	23.822	15.505	74710	9	8.716	17.867	74782	24	7.692	19.094
74495*	48	6.262	12.702	74567	32	4.526	14.303	74639	16	23.855	15.347	74711	22	10.512	17.986	74783	10	8.208	19.154
74496	37	6.796	12.277	74568	21	4.602	14.798	74640*	48	23.963	15.881	74712	8	10.848	17.760	74784	15	8.416	19.313
74497	12	7.232	12.004	74569	20	4.700	14.662	74641	20	0.308	16.728	74713	8	10.889	17.716	74785	23	8.637	19.260
74498	10	7.722	12.206	74570	34	5.798	14.026	74642	10	0.717	16.521	74714	24	10.952	17.502	74786	17	8.663	19.796
74499	10	10.676	12.546	74571*	45	5.845	14.073	74643	10	0.776	16.846	74715	36	11.260	17.593	74787	28	8.900	19.215
74500	36	12.202	12.803	745															



74798	24	18.140	19.640	74870	8	21.910	21.728	74942	11	18.806	23.268	75014	8	24.602	25.630	75095	12	3.070	1.601
74799	12	19.164	19.148	74871	12	22.406	21.127	74943	31	19.344	23.481	75015	11	25.380	25.068	75096	30	3.274	1.009
74800	20	19.471	19.688	74872	17	22.676	21.876	74944	11	19.402	23.130	75016	22	25.459	25.123	75097	17	6.036	1.999
74801	11	20.021	19.021	74873	22	22.770	21.454	74945	14	19.756	23.710	75017	19	25.565	25.952	75098	12	6.886	1.430
74802	44	21.190	19.867	74874	9	23.955	21.594	74946	14	19.970	23.624					75099	23	8.938	1.401
74803	31	21.609	19.422	74875	14	24.064	21.062	74947	10	21.157	23.688					75100	10	9.134	1.920
74804	9	21.714	19.591	74876	22	25.999	21.330	74948	13	22.900	23.028					75101	16	9.293	1.772
74805	20	21.976	19.410	74877	65	0.594	22.184	74949	9	23.090	23.374					75102	13	9.588	1.438
74806	8	22.376	19.156	74878	10	1.043	22.648	74950	8	23.959	23.314					75103	10	9.692	1.380
74807	21	23.809	19.177	74879	21	1.424	22.560	74951	11	24.799	23.010					75104	19	10.258	1.803
74808	33	24.902	19.648	74880	49	1.636	22.866	74952	20	1.967	24.034					75105	21	15.957	1.566
74809	31	1.649	20.474	74881	8	2.674	22.466	74953	11	2.158	24.816					75106	21	15.988	1.579
74810	10	2.538	20.850	74882	9	3.438	22.034	74954	9	2.182	24.766					75107	24	18.378	1.690
74811	20	3.796	20.247	74883	33	5.472	22.932	74955	9	2.462	24.152					75108	11	18.480	1.588
74812	8	3.918	20.618	74884	9	5.590	22.792	74956	21	4.888	24.042					75109	33	19.184	1.233
74813	11	4.305	20.912	74885	26	6.740	22.437	74957	8	5.375	24.579					75110	63	19.974	1.741
74814	16	4.447	20.841	74886	10	8.843	22.144	74958	14	5.466	24.602					75111	33	20.186	1.871
74815	20	4.504	20.514	74887	16	9.836	22.870	74959	32	6.916	24.674					75112	28	21.274	1.526
74816	11	4.652	20.839	74888	12	9.880	22.432	74960	9	7.609	24.392					75113	24	21.362	1.680
74817	8	4.874	20.938	74889	8	10.028	22.492	74961	14	8.292	24.132					75114	24	22.174	1.832
74818	21	6.227	20.092	74890	12	10.202	22.560	74962	33	9.196	24.897					75115	10	22.510	1.125
74819	8	6.278	20.813	74891	18	10.218	22.418	74963	13	9.351	24.096					75116	31	22.565	1.675
74820	22	6.950	20.271	74892	21	13.108	22.312	74964	35	9.420	24.065					75117	20	23.060	1.380
74821	28	7.052	20.677	74893	16	13.984	22.529	74965	8	9.462	24.812					75118	10	23.702	1.018
74822	13	7.563	20.935	74894	28	15.817	22.327	74966	11	10.006	24.554					75119	44	23.744	1.470
74823	18	8.024	20.970	74895	18	16.213	22.890	74967	11	10.924	24.986					75120	60	24.982	1.188
74824	13	9.373	20.762	74896	10	16.583	22.029	74968	20	12.733	24.229					75121	30	25.058	1.416
74825	22	13.108	20.694	74897	17	17.525	22.404	74969	17	14.364	24.776					75122	10	25.112	1.156
74826	14	13.880	20.936	74898	10	17.698	22.802	74970	13	14.449	24.626					75123	11	25.311	1.294
74827	18	15.842	20.586	74899	9	18.298	22.646	74971	20	15.442	24.602					75124	48	25.544	1.164
74828	9	17.927	20.665	74900	8	18.842	22.548	74972	18	17.692	24.964					75125	47	25.546	1.159
74829	20	22.577	20.824	74901	29	19.176	22.983	74973	10	17.851	24.114					75126	32	25.700	1.001
74830	14	22.860	20.424	74902	14	20.161	22.040	74974	9	18.842	24.456					75127	16	25.761	1.091
74831	12	24.960	20.456	74903	9	20.310	22.487	74975	9	22.832	24.607					75128	25	25.940	1.788
74832	12	25.374	20.657	74904	24	20.340	22.115	74976	21	24.650	24.330					75129	12	2.280	2.049
74833	14	25.547	20.440	74905	20	21.126	22.552	74977	35	25.276	24.644					75130	29	4.692	2.692
74834	15	25.733	20.450	74906	46	21.276	22.553	74978	8	2.236	25.817					75131	14	5.374	2.442
74835	8	0.072	21.177	74907	23	21.498	22.891	74979	10	3.214	25.174					75132	11	5.792	2.496
74836	19	0.196	21.784	74908	8	22.582	22.458	74980	14	3.990	25.814					75133	11	6.096	2.416
74837	10	1.047	21.680	74909	9	22.961	22.292	74981	24	5.341	25.934					75134	27	7.715	2.920
74838	8	1.312	21.410	74910	8	22.986	22.939	74982	76	6.086	25.209					75135	15	8.536	2.346
74839	12	1.473	21.764	74911	13	23.398	22.335	74983	19	7.119	25.906					75136	20	9.555	2.850
74840	17	2.372	21.224	74912	11	23.406	22.621	74984	13	8.576	25.366					75137	23	10.447	2.640
74841	34	2.524	21.606	74913	31	24.256	22.086	74985	9	9.084	25.680					75138	31	10.507	2.210
74842	8	3.756	21.592	74914	8	24.604	22.164	74986	10	9.650	25.048					75139	31	11.630	2.411
74843	21	4.814	21.918	74915	18	24.812	22.004	74987	14	10.872	25.142					75140	33	12.100	2.470
74844	19	5.483	21.191	74916	20	24.884	22.840	74988	9	11.130	25.794					75141	16	12.200	2.444
74845	10	5.528	21.576	74917	31	25.824	22.328	74989	21	12.082	25.446					75142	22	12.220	2.188
74846	13	5.734	21.696	74918	22	0.620	23.977	74990	21	12.086	25.049					75143	44	12.446	2.042
74847	23	6.306	21.520	74919	9	0.950	23.348	74991	14	12.848	25.318					75144	10	13.870	2.260
74848	18	6.662	21.608	74920	8	2.199	23.052	74992	10	12.916	25.501					75145	14	14.757	2.052
74849	27	6.976	21.503	74921	11	2.312	23.743	74993	8	12.925	25.413					75146	27	16.818	2.790
74850	20	7.197	21.536	74922	9	2.516	23.664	74994	48	14.009	25.466					75147	15	17.104	2.710
74851	17	7.535	21.739	74923	35	3.608	23.522	74995	13	14.584	25.722					75148	40	17.264	2.850
74852	23	7.568	21.483	74924	32	3.678	23.618	74996	12	14.621	25.366					75149	12	18.242	2.888
74853	53	9.350	21.534	74925	12	3.694	23.638	74997	18	15.570	25.349					75150	26	18.609	2.078
74854	11	9.558	21.972	74926	8	4.505	23.195	74998	19	15.833	25.063					75151	49	18.771	2.806
74855	10	10.532	21.220	74927	31	4.674	23.128	74999	9	17.380	25.259					75152	34	19.278	2.970
74856	13	11.768	21.280	74928	11	4.748	23.492	75000	17	17.444	25.759					75153	12	19.426	2.416
74857	22	11.860	21.447	74929	17	4.817	23.092	75001	14	17.708	25.339					75154	29	19.635	2.674
74858	23	11.931	21.392	74930	43	5.236	23.892	75002	15	18.156	25.108					75155	22	19.950	2.150
74859	8	13.903	21.549	74931	9	5.482	23.343	75003	33	18.620	25.468					75156	18	20.950	2.292
74860	16	14.082	21.109	74932	16	5.611	23.042	75004	13	20.234	25.482					75157	12	21.024	2.051
74861	19	14.877	21.476	74933	13	5.962	23.966	75005	20	20.636	25.005					75158	31	21.138	2.460
74862	12	16.432	21.866	74934	16	6.512	23.162	75006	9	21.416	25.900					75159	35	21.287	2.812
74863	13	16.597	21.730	74935	15	11.972	23.724	75007	13	21.430	25.816					75160	14	22.154	2.212
74864	22	16.639	21.126	74936	15	12.147	23.182	75008	9	22.612	25.172					75161	29	22.283	2.642
74865	21	17.953	21.823	74937	9	12.585	23.421	75009	40	22.670	25.916					75162	25	25.158	2.672
74866	22	18.432	21.950	74938	9	13.577	23.014	75010	12	22.715	25.290					75163	28	25.388	2.049
74867	8	18.584	21.838	74939	18	15.180	23.996												







R.A. 18 <sup>h</sup> 52 <sup>m</sup>				75956	12	9.835	1.891	76028	23	0.878	5.067	76100*	157	11.042	10.092	76172	14	7.828	15.590
Plate 1818; 1921 May 10				75957	25	12.220	1.758	76029	25	1.722	5.228	76101	10	14.148	10.970	76173	25	9.305	15.836
				75958	9	14.307	1.599	76030	31	1.760	5.460	76102*	28	14.915	10.038	76174*	70	11.830	15.926
				75959	13	15.985	1.352	76031	20	2.074	5.665	76103	13	16.478	10.812	76175*	160	12.135	15.394
Provisional Constants.				75960	17	20.913	1.364	76032	20	2.671	5.012	76104	13	17.314	10.556	76176	13	12.148	15.072
				75961	12	22.458	1.296	76033	11	3.213	5.227	76105	25	17.700	10.748	76177	10	17.428	15.500
				75962	25	24.734	1.894	76034*	40	4.457	5.925	76106	14	18.366	10.078	76178	12	19.795	15.108
A B C -01753 +01548 -2326				75963	22	0.161	2.165	76035*	65	5.079	5.428	76107	12	19.460	10.104	76179	19	19.884	15.835
				75964	18	2.995	2.484	76036	19	10.538	5.720	76108	24	21.542	10.462	76180	10	21.179	15.892
				75965	13	3.154	2.460	76037*	26	10.754	5.496	76109	9	21.692	10.258	76181	12	21.492	15.080
D E F -01535 -01753 -0039				75966	17	3.540	2.210	76038	23	12.720	5.420	76110	20	23.135	10.548	76182	10	4.031	16.461
				75967	19	4.098	2.886	76039	26	17.638	5.224	76111	28	23.904	10.807	76183*	66	16.248	16.843
				75968	13	4.702	2.666	76040	22	21.808	5.986	76112	11	24.280	10.314	76184	10	21.934	16.492
Mag.=16.6-1.05√d				75969	28	5.388	2.783	76041	25	24.720	5.831	76113	21	24.642	10.236	76185	14	22.837	16.295
				75970*	60	6.480	2.580	76042	20	0.316	6.458	76114	9	1.861	11.580	76186	22	25.450	16.748
				75971	16	6.831	2.550	76043	35	1.422	6.016	76115	9	9.498	11.110	76187	25	25.454	16.050
No.	d	x	y	75972	12	12.818	2.923	76044	12	3.981	6.995	76116	10	18.240	11.160	76188*	44	0.198	17.981
75901	12	1.086	0.783	75973	12	14.646	2.046	76045	15	4.011	6.970	76117*	27	18.650	11.800	76189	12	2.268	17.600
75902*	58	1.185	0.040	75974	18	15.843	2.994	76046	15	8.630	6.112	76118	9	19.510	11.100	76190	42	3.005	17.814
75903	12	2.848	0.685	75975	18	16.182	2.414	76047	12	9.740	6.638	76119	11	21.024	11.560	76191	15	3.790	17.448
75904	23	3.060	0.878	75976	15	16.668	2.308	76048	13	10.420	6.838	76120	17	21.728	11.179	76192	19	5.719	17.570
75905	37	3.212	0.749	75977	13	18.717	2.346	76049	18	11.814	6.777	76121	17	21.970	11.480	76193	13	5.720	17.954
75906	24	3.454	0.155	75978	15	19.149	2.860	76050	14	13.258	6.670	76122	11	25.114	11.216	76194	13	9.498	17.394
75907	28	3.483	0.774	75979	9	20.128	2.860	76051	10	15.980	6.880	76123	15	0.054	12.184	76195	35	10.414	17.899
75908	18	3.650	0.705	75980	16	21.920	2.368	76052	15	19.865	6.569	76124	40	1.368	12.104	76196	24	10.440	17.320
75909	15	3.714	0.778	75981	9	23.056	2.466	76053	22	21.378	6.940	76125	11	1.580	12.772	76197	14	14.810	17.347
75910*	43	3.910	0.800	75982	22	25.360	2.152	76054	20	21.760	6.335	76126	10	4.934	12.354	76198	13	15.763	17.012
75911	18	5.147	0.504	75983	35	1.520	3.951	76055*	29	24.075	6.558	76127*	52	5.409	12.338	76199	19	18.690	17.766
75912	12	6.403	0.958	75984	12	1.580	3.565	76056	18	25.716	6.890	76128*	36	6.422	12.820	76200	15	19.823	17.546
75913	12	7.274	0.146	75985	22	1.890	3.802	76057	34	0.414	7.770	76129	10	9.706	12.856	76201	20	20.726	17.684
75914	17	8.074	0.287	75986	15	2.016	3.798	76058*	38	1.234	7.290	76130	11	10.040	12.014	76202	13	21.498	17.498
75915*	42	9.102	0.102	75987	15	2.776	3.112	76059	16	1.840	7.748	76131	21	16.218	12.078	76203	35	24.702	17.354
75916	15	9.291	0.798	75988	11	4.194	3.400	76060	20	8.015	7.070	76132	17	17.898	12.596	76204*	100	1.920	18.467
75917	10	9.739	0.270	75989	20	4.808	3.722	76061	10	12.647	7.532	76133	18	18.481	12.810	76205	30	3.236	18.460
75918	10	10.966	0.630	75990	11	5.944	3.762	76062*	111	13.340	7.338	76134	23	18.685	12.200	76206	20	4.282	18.710
75919	13	11.684	0.264	75991	19	8.088	3.434	76063	20	15.038	7.668	76135	11	18.990	12.036	76207	22	16.648	18.164
75920*	40	12.532	0.260	75992	20	11.698	3.258	76064	13	18.060	7.016	76136	24	22.765	12.487	76208	38	16.722	18.563
75921	13	13.034	0.989	75993	20	11.990	3.170	76065	28	19.776	7.771	76137	12	23.688	12.492	76209	24	20.282	18.785
75922	22	14.155	0.884	75994	11	12.040	3.448	76066	19	21.990	7.706	76138	9	24.668	12.575	76210	14	20.327	18.330
75923	22	14.376	0.770	75995	11	12.990	3.818	76067	19	22.962	7.148	76139	19	24.990	12.387	76211	12	20.725	18.250
75924	21	14.777	0.680	75996	20	13.340	3.940	76068	42	25.785	7.410	76140	15	25.589	12.408	76212	11	22.530	18.274
75925	25	19.418	0.632	75997	24	16.092	3.448	76069	55	25.850	7.172	76141	14	1.855	13.626	76213	16	22.870	18.286
75926*	45	19.524	0.950	75998	14	16.385	3.055	76070	23	0.656	8.355	76142	12	2.060	13.400	76214	13	25.188	18.694
75927	23	20.170	0.906	75999	26	16.389	3.290	76071	12	1.745	8.795	76143*	59	2.308	13.422	76215	22	0.117	19.156
75928*	40	20.383	0.610	76000	10	16.691	3.710	76072	15	3.019	8.156	76144	25	5.560	13.425	76216	27	1.840	19.777
75929	30	20.515	0.332	76001	9	17.703	3.739	76073	12	9.697	8.858	76145*	44	5.718	13.106	76217	13	1.890	19.780
75930*	44	21.388	0.986	76002	12	18.300	3.823	76074	10	11.045	8.372	76146	22	8.571	13.814	76218	22	4.088	19.258
75931	30	21.390	0.726	76003	13	20.040	3.012	76075	9	13.874	8.766	76147	12	8.770	13.282	76219	21	6.572	19.920
75932	12	22.330	0.410	76004	19	21.020	3.940	76076	17	13.984	8.361	76148	10	20.285	13.212	76220	24	6.620	19.613
75933*	44	22.839	0.218	76005	20	22.980													



76244	41	20.590	20.708		76406	11	19.212	2.230	76478	8	1.302	6.443	76550	20	18.180	8.444
76245	16	22.353	20.400	R.A. 19 <sup>h</sup> 0 <sup>m</sup>	76407	8	20.193	2.624	76479*	26	1.990	6.708	76551	9	18.876	8.876
76246	13	25.596	20.115	Plate 1837; 1921 Oct. 5.	76408	10	20.583	2.976	76480	19	5.992	6.316	76552	18	19.734	8.170
76247	11	0.960	21.351		76409*	45	21.294	2.657	76481	27	7.214	6.112	76553	14	25.732	8.460
76248	15	3.702	21.355	Provisional Constants.	76410	8	22.251	2.830	76482	9	7.236	6.306	76554	16	0.539	9.980
76249*	40	13.555	21.002		76411	32	22.580	2.336	76483	10	8.515	6.743	76555	8	1.515	9.595
76250	15	17.801	21.640	A B C	76412	8	22.767	2.378	76484	20	9.382	6.720	76556	8	2.383	9.268
76251	33	24.383	21.693	—01764 +.00114 —.1247	76413	11	24.967	2.036	76485	8	10.275	6.069	76557	8	2.392	9.174
76252	50	0.127	22.798		76414	12	3.316	3.373	76486	9	10.279	6.072	76558	20	2.426	9.866
76253	10	0.530	22.714	D E F	76415	10	3.570	3.933	76487	12	10.567	6.836	76559	9	3.354	9.084
76254	12	9.172	22.346	—00089 —.01759 —.2112	76416	8	7.257	3.680	76488	10	11.990	6.240	76560	21	3.464	9.500
76255*	40	12.347	22.860	Mag.=15.9—1.05√d	76417	9	9.070	3.470	76489	11	13.750	6.672	76561	11	3.596	9.402
76256	22	12.880	22.925		76418	11	11.000	3.920	76490	9	15.390	6.018	76562	8	5.683	9.718
76257	13	17.756	22.784	No	76419	12	11.228	3.616	76491	8	16.310	6.140	76563*	41	6.440	9.298
76258	12	18.272	22.858	d	76420	8	11.658	3.074	76492	19	18.098	6.236	76564	14	7.122	9.640
76259*	12	19.330	22.937	x	76421	15	13.064	3.960	76493	10	19.517	6.156	76565	25	8.148	9.134
76260	13	20.728	22.460	y	76422	23	15.298	3.332	76494	8	19.566	6.042	76566	8	10.144	9.703
76261	10	22.106	22.309	76351	10	15.430	3.392	76495	12	20.098	6.752	76567	14	13.278	9.359	
76262	21	22.958	22.084	76352*	43	0.764	0.364	76496	8	20.220	6.498	76568	25	13.886	9.674	
76263	12	23.058	22.008	76353	19	2.786	0.494	76497	16	22.964	6.676	76569	9	17.560	9.636	
76264	14	0.745	23.924	76354	8	3.062	0.254	76498	8	23.640	6.144	76570	28	18.103	9.146	
76265	14	2.241	23.434	76355	8	3.660	0.570	76499	29	23.865	6.797	76571	10	18.480	9.540	
76266	20	3.662	23.378	76356*	28	4.437	0.166	76500	8	23.933	6.104	76572	17	18.633	9.188	
76267	16	4.121	23.506	76357	10	5.444	0.019	76501	13	24.098	6.998	76573	11	19.169	9.784	
76268	10	7.227	23.024	76358	9	6.460	0.352	76502	12	25.574	6.067	76574	8	19.482	9.274	
76269	20	7.986	23.235	76359	26	7.164	0.242	76503	19	0.878	7.294	76575	9	20.272	9.720	
76270	24	8.677	23.780	76360	8	7.858	0.250	76504	18	3.632	7.043	76576	10	20.726	9.358	
76271	11	10.540	23.720	76361	27	10.214	0.442	76505*	41	3.699	7.562	76577	18	21.083	9.842	
76272	14	10.557	23.555	76362	12	10.508	0.506	76506*	47	3.764	7.328	76578	16	22.012	9.202	
76273	14	11.518	23.998	76363	12	13.440	0.092	76507	15	4.120	7.701	76579	8	22.892	9.812	
76274	21	11.784	23.183	76364	9	16.650	0.549	76508	11	4.142	7.041	76580	11	24.144	9.210	
76275*	44	17.310	23.888	76365	10	17.268	0.608	76509	14	5.927	7.920	76581	18	24.806	9.908	
76276	21	17.971	23.160	76366	9	17.590	0.014	76510	13	6.300	7.649	76582	20	1.046	10.696	
76277*	34	18.027	23.015	76367	10	18.160	0.296	76511	17	6.486	7.228	76583	25	1.815	10.956	
76278	21	21.698	23.132	76368	8	18.371	0.841	76512*	32	7.248	7.781	76584	12	2.135	10.314	
76279	11	22.810	23.584	76369	32	19.508	0.878	76513	15	9.736	7.164	76585	10	2.190	10.465	
76280	33	23.210	23.580	76370*	42	20.917	0.452	76514	12	12.502	7.506	76586	19	2.555	10.388	
76281	24	23.438	23.404	76371	21	22.447	0.383	76515	11	13.285	7.168	76587	17	3.388	10.150	
76282	11	23.983	23.264	76372*	64	23.478	0.331	76516	9	13.764	7.456	76588	8	4.348	10.742	
76283	10	24.625	23.446	76373	12	0.386	1.440	76517	10	13.989	7.560	76589	8	4.572	10.644	
76284*	44	2.045	24.075	76374	10	4.903	1.390	76518	20	15.738	7.719	76590	9	5.102	10.688	
76285	10	10.311	24.889	76375	13	6.460	1.738	76519	8	16.673	7.640	76591	9	5.327	10.638	
76286	25	11.194	24.480	76376	8	7.612	1.922	76520	8	18.061	7.414	76592	9	5.858	10.454	
76287	12	12.959	24.380	76377	15	7.963	1.754	76521	8	20.124	7.162	76593*	32	6.988	10.570	
76288	12	14.998	24.860	76378	10	10.041	1.918	76522	8	20.168	7.313	76594	8	8.228	10.821	
76289*	42	16.260	24.776	76379	8	11.508	1.498	76523	11	20.358	7.115	76595	10	8.283	10.254	
76290	15	16.526	24.964	76380	34	12.928	1.585	76524	14	21.366	7.479	76596	10	9.945	10.042	
76291	20	18.334	24.860	76381	8	13.027	1.743	76525	35	23.142	7.404	76597	13	13.246	10.358	
76292	21	19.016	24.430	76382	9	13.169	1.158	76526	10	23.361	7.902	76598	14	13.664	10.853	
76293	11	19.620	24.656	76383	10	13.744	1.288	76527*	33	23.510	7.990	76599	19	14.540	10.136	
76294*	35	21.514	24.070	76384	17	15.120	1.850	76528	24	23.550	7.260	76600	23	15.807	10.150	
76295	19	24.399	24.498	76385	12	15.184	1.333	76529	8	23.899	7.164	76601	14	16.438	10.877	
76296	24	25.700	24.376	76386	9	15.782	1.607	76530	10	25.604	7.480	76602	11	16.439	10.583	
76297	26	3.306	25.795	76387	8	16.412	1.312	76531	24	2.890	8.230	76603	11	17.282	10.282	
76298	14	3.978	25.560	76388	14	16.485	1.377	76532	24	2.955	8.573	76604	15	21.038	10.569	
76299*	42	4.410	25.446	76389	26	19.448	1.484	76533	11	3.516	8.481	76605	17	21.488	10.554	
76300	16	4.688	25.340	76390	28	19.971	1.738	76534	18	5.256	8.996	76606	27	23.000	10.985	
76301	18	5.162	25.758	76391	8	0.984	2.613	76535	13	6.618	8.976	76607	8	25.019	10.520	
76302	10	8.444	25.892	76392	27	2.660	2.044	76536	8	7.40						



76622	10	14.000	11.376	76694	12	3.925	14.628	76766	32	2.606	17.506	76838	9	16.351	19.278	76910	8	13.232	22.706
76623	10	14.394	11.065	76695*	31	5.916	14.364	76767	8	5.784	17.717	76839	10	16.737	19.014	76911	33	14.066	22.570
76624	11	14.796	11.888	76696	11	7.630	14.813	76768	18	5.947	17.523	76840	29	16.945	19.756	76912	8	14.886	22.342
76625	8	15.202	11.142	76697*	40	9.100	14.456	76769	9	6.652	17.550	76841	8	17.198	19.770	76913	10	15.012	22.471
76626	8	18.138	11.616	76698	8	9.610	14.658	76770	8	10.479	17.324	76842	8	17.386	19.586	76914	9	16.198	22.078
76627	11	18.949	11.692	76699	32	9.616	14.351	76771	16	11.500	17.826	76843	8	19.178	19.183	76915	25	16.441	22.102
76628	27	19.525	11.120	76700	13	10.453	14.292	76772	21	13.732	17.706	76844	9	22.453	19.352	76916	12	16.617	22.804
76629	11	20.055	11.289	76701	26	11.655	14.693	76773	11	13.856	17.087	76845*	45	22.852	19.901	76917	13	16.940	22.988
76630	23	20.986	11.966	76702	18	13.107	14.800	76774	29	14.914	17.582	76846*	32	22.981	19.432	76918	10	16.944	22.942
76631	23	0.673	12.635	76703	10	13.320	14.403	76775	8	16.298	17.976	76847	15	0.248	20.547	76919*	43	18.256	22.598
76632	11	1.597	12.640	76704	12	14.350	14.148	76776	9	16.400	17.566	76848	10	0.502	20.827	76920	18	19.163	22.362
76633	8	2.230	12.448	76705	10	15.868	14.162	76777*	44	17.644	17.284	76849	8	1.216	20.258	76921	15	19.396	22.030
76634	11	2.576	12.728	76706	9	16.525	14.338	76778	28	18.622	17.202	76850	11	3.493	20.268	76922	8	19.971	22.465
76635	18	2.898	12.538	76707	8	19.434	14.472	76779	17	19.146	17.512	76851	11	4.023	20.494	76923	20	20.738	22.294
76636	13	3.498	12.562	76708*	44	19.870	14.304	76780	19	19.372	17.986	76852	8	4.608	20.926	76924	19	23.922	22.368
76637	10	4.523	12.383	76709	11	20.620	14.862	76781	12	19.390	17.612	76853	22	5.264	20.658	76925*	41	25.256	22.428
76638	8	4.754	12.250	76710	8	21.127	14.869	76782*	42	20.046	17.284	76854	19	7.952	20.312	76926	9	0.700	23.732
76639	26	7.940	12.229	76711	26	22.087	14.527	76783	13	24.706	17.334	76855*	60	8.173	20.559	76927	28	1.100	23.731
76640	9	8.012	12.083	76712	9	22.418	14.259	76784	9	25.717	17.842	76856	8	13.919	20.459	76928	20	1.328	23.553
76641	26	8.074	12.311	76713	16	22.518	14.025	76785	22	25.896	17.180	76857	27	15.410	20.306	76929	11	1.872	23.414
76642	9	11.430	12.274	76714*	160	23.166	14.732	76786	10	0.428	18.424	76858	10	16.162	20.788	76930	8	2.052	23.343
76643	12	12.419	12.047	76715	27	23.360	14.431	76787	19	0.769	18.436	76859	12	16.931	20.175	76931	11	2.518	23.598
76644	14	12.616	12.164	76716	8	23.498	14.460	76788	12	3.087	18.846	76860	8	17.696	20.258	76932	8	2.918	23.847
76645	10	13.104	12.500	76717	8	2.965	15.462	76789	8	4.297	18.920	76861	12	18.178	20.250	76933	9	2.971	23.858
76646	11	14.692	12.558	76718	9	4.211	15.627	76790	14	4.955	18.140	76862	19	18.315	20.241	76934	15	4.307	23.738
76647	14	16.064	12.067	76719	17	5.086	15.289	76791	14	5.154	18.890	76863	12	18.977	20.147	76935	17	4.386	23.868
76648	8	17.417	12.632	76720	15	6.148	15.254	76792	18	5.326	18.659	76864	12	19.218	20.400	76936	8	5.253	23.378
76649*	40	18.234	12.219	76721	17	6.274	15.688	76793	9	5.746	18.556	76865	22	21.100	20.070	76937	14	6.382	23.246
76650	11	19.258	12.118	76722	9	7.582	15.494	76794	10	6.175	18.384	76866	21	21.846	20.255	76938	9	6.424	23.837
76651	10	19.770	12.121	76723*	45	10.577	15.294	76795	8	6.222	18.250	76867	10	22.643	20.910	76939	12	7.676	23.889
76652	10	21.010	12.778	76724	9	11.155	15.338	76796	13	6.844	18.828	76868	19	23.542	20.206	76940	10	7.744	23.152
76653	22	22.211	12.029	76725	17	14.562	15.922	76797	8	7.574	18.060	76869	10	24.512	20.000	76941*	107	9.099	23.040
76654	8	24.677	12.183	76726	8	15.823	15.932	76798	9	8.190	18.847	76870	28	2.276	21.844	76942	12	11.730	23.084
76655*	39	1.240	13.504	76727	18	17.263	15.042	76799	8	9.803	18.534	76871	17	4.376	21.963	76943	8	12.354	23.681
76656	11	2.040	13.734	76728	27	17.352	15.422	76800	8	10.797	18.412	76872	8	5.811	21.238	76944	8	12.808	23.075
76657	8	3.657	13.264	76729	17	18.280	15.218	76801	9	11.795	18.365	76873	10	6.516	21.219	76945	11	16.203	23.908
76658	10	3.720	13.994	76730	20	18.886	15.615	76802	14	12.070	18.153	76874	8	7.010	21.191	76946	11	16.732	23.150
76659	8	4.331	13.479	76731	10	20.946	15.700	76803	8	12.802	18.808	76875	10	7.202	21.512	76947	34	18.734	23.708
76660	8	4.392	13.199	76732	17	21.327	15.252	76804	9	13.252	18.356	76876	27	7.554	21.096	76948	8	20.150	23.222
76661	14	5.488	13.780	76733	8	22.262	15.762	76805	8	13.354	18.732	76877	19	8.014	21.226	76949	21	20.693	23.377
76662	12	6.168	13.964	76734	19	23.009	15.368	76806	12	14.620	18.437	76878	9	8.302	21.838	76950	8	22.102	23.274
76663	11	6.850	13.328	76735	8	23.368	15.548	76807	18	15.792	18.802	76879	10	8.334	21.087	76951	8	22.421	23.546
76664	14	7.336	13.738	76736	8	24.226	15.132	76808	35	16.168	18.126	76880	10	13.640	21.532	76952	12	25.590	23.040
76665	8	7.751	13.344	76737	11	24.322	15.440	76809	10	16.760	18.420	76881	8	13.920	21.580	76953	8	1.213	24.127
76666*	48	10.236	13.688	76738	8	24.668	15.881	76810	8	17.155	18.009	76882	15	14.814	21.775	76954	24	2.288	24.649
76667	11	10.978	13.456	76739	17	25.074	15.764	76811	15	17.531	18.893	76883	8	16.064	21.178	76955	26	3.590	24.529
76668	9	11.640	13.870	76740	20	25.178	15.002	76812	8	20.396	18.228	76884	8	16.242	21.708	76956	14	4.641	24.542
76669*	40	12.182	13.354	76741	11	25.769	15.397	76813	9	20.878	18.761	76885	8	16.561	21.779	76957	8	4.922	24.712
76670	20	12.664	13.891	76742	9	0.618	16.392	76814	10	21.326	18.732	76886*	41	16.624	21.618	76958	10	5.818	24.912
76671	13	13.217	13.581	76743	13	0.736	16.444	76815	12	21.546	18.848	76887	8	17.558	21.858	76959	8	6.414	24.644
76672	11	13.246	13.599	76744	21	3.349	16.900	76816	21	22.297	18.005	76888	8	17.910	21.402	76960	27	7.005	24.512
76673	11	13.617	13.304	76745	24	3.354	16.203	76817	8	23.222	18.266	76889	8	18.775	21.692	76961	8	7.086	24.085
76674	16	14.058	13.282	76746	12	5.123	16.172	76818	38	24.853	18.171	76890	9	20.407	21.015	76962	10	7.216	24.100
76675	20	15.532	13.802	76747	18	8.126	16.067	76819	10	24.878	18.208	76891	8	20.477	21.299	76963	10	8.243	24.510
76676	9	15.956	13.856	76748	18	8.204	16.404	76820	18	25.158	18.306	76892	8	20.692	21.290	76964	12	8.310	24.457
76677	9	16.196	13.157	76749	21	8.685	16.376	76821	31	25.427	18.899	76893	12	23.613	21.760	76965	10	8.576	24.138
76678	14	17.523	13.786	76750	16	8.787	16.810	76822	9	0.674	19.990	76894	12	23.747	21.344	76966	12	9.891	24.150
76679	10	17.526	13.682	76751	22	9.743	16.256	76823	10	4.232	19.376	76895	10	0.001	22.458	76967	33	10.736	24.299
76680	8	18.450	13.252	76752	10	10.456	16.551	76824	13	4.808	19.324	76896	21	0.850	22.234	76968	14	11.902	24.906
76681	8	19.186	13.872	76753	9	10.596	16.212	76825	17	5.507	19.882	76897	14	0.952	22.158	76969	8	12.716	24.127
76682*	33	20.722	13.245	76754	17	11.121	16.119	76826	17	6.564	19.428	76898	8	3.497	22.216	76970	19	12.908	24.802
76683	9	20.912	13.228	76755	30	12.980	16.558	76827	8	6.908	19.498	76899	8	4.988	22.391	76971	8	13.682	24.122
76684	10	21.602	13.110	76756	17</														



76982	8	1.184	25.438	77076	10	24.606	0.678	77148	11	25.378	2.298	77220	10	9.509	5.520	77292	17	7.332	7.800																
76983	9	4.206	25.438	77077	12	4.720	1.968	77149*	74	0.597	3.316	77221	10	9.707	5.657	77293	43	7.431	7.630																
76984	20	5.054	25.292	77078	14	5.328	1.528	77150	26	1.811	3.872	77222	20	10.090	5.658	77294	31	8.009	7.690																
76985	17	5.366	25.826	77079*	45	6.042	1.841	77151	11	2.972	3.634	77223	13	10.100	5.088	77295	10	8.930	7.637																
76986	9	5.725	25.304	77080	16	6.334	1.050	77152	10	3.160	3.068	77224	23	10.290	5.669	77296	10	9.730	7.728																
76987	12	7.324	25.620	77081*	42	8.064	1.970	77153	34	3.327	3.134	77225	32	10.404	5.488	77297	14	9.930	7.769																
76988	8	7.432	25.798	77082	25	8.540	1.362	77154	36	3.592	3.496	77226*	38	11.347	5.037	77298	10	10.044	7.313																
76989	23	8.199	25.716	77083	10	9.639	1.497	77155	38	4.600	3.130	77227	15	11.854	5.626	77299*	78	10.319	7.728																
76990	11	10.754	25.090	77084	13	9.944	1.912	77156	32	5.582	3.720	77228	21	13.229	5.960	77300	10	11.918	7.268																
76991	19	12.768	25.170	77085	13	10.686	1.808	77157	13	5.842	3.994	77229	10	13.981	5.119	77301	33	13.100	7.252																
76992	8	14.416	25.484	77086	12	11.330	1.966	77158	41	8.900	3.202	77230	15	14.142	5.118	77302	10	13.370	7.745																
76993	14	15.644	25.182	77087	11	11.330	1.582	77159	33	9.062	3.454	77231	14	16.085	5.664	77303	12	16.910	7.018																
76994	8	15.822	25.756	77088	33	12.394	1.281	77160	12	9.412	3.501	77232	10	16.567	5.587	77304	17	17.117	7.315																
76995	8	15.993	25.247	77089*	39	12.715	1.867	77161	15	9.906	3.102	77233	9	17.596	5.484	77305	16	17.922	7.182																
76996	13	17.440	25.393	77090	14	12.878	1.504	77162	16	10.298	3.382	77234	20	18.264	5.234	77306	15	18.040	7.376																
76997	11	17.656	25.298	77091	15	13.742	1.696	77163	14	12.546	3.290	77235	10	19.896	5.495	77307	15	18.137	7.120																
76998	8	18.143	25.596	77092	21	13.849	1.041	77164	10	12.850	3.486	77236	17	20.588	5.762	77308	15	21.756	7.720																
76999	8	19.054	25.452	77093	23	13.880	1.584	77165	10	14.346	3.518	77237	29	21.052	5.028	77309	26	22.670	7.215																
77000	8	21.063	25.622	77094	19	14.011	1.196	77166	20	14.388	3.551	77238	19	21.210	5.620	77310	14	23.318	7.701																
77001	10	22.486	25.716	77095*	45	14.540	1.715	77167*	44	15.019	3.130	77239	13	23.742	5.899	77311*	49	24.694	7.960																
77002	8	22.487	25.255	77096	32	16.066	1.809	77168	15	15.145	3.176	77240	31	0.639	6.840	77312	11	25.870	7.525																
77003	12	22.998	25.500	77097	19	16.804	1.812	77169	22	15.247	3.718	77241	23	1.302	6.294	77313	22	1.067	8.058																
77004	11	23.242	25.665	77098	11	16.965	1.623	77170	10	16.766	3.373	77242	42	1.541	6.938	77314*	43	1.216	8.140																
<div>R.A. 19<sup>h</sup> 8<sup>m</sup></div> <div>Plate 2002; 1922 Oct. 11.</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>—01736 +01436 —4561</div> <div>D            E            F</div> <div>—01420 —01748 —0640</div> <div>Mag.=16.5—1.05√d</div>																				77099	10	21.336	1.772	77171	12	18.597	3.948	77243	13	1.591	6.246	77315	10	1.500	8.662
																				77100	21	22.192	1.684	77172	11	19.654	3.920	77244	10	2.209	6.527	77316	10	2.016	8.798
																				77101	43	22.290	1.622	77173	15	20.570	3.678	77245	10	3.225	6.190	77317	10	3.120	8.314
																				77102	17	22.300	1.970	77174	21	21.620	3.081	77246	30	3.232	6.169	77318	12	3.132	8.089
																				77103	12	23.428	1.702	77175	15	21.663	3.136	77247	11	4.874	6.328	77319	10	3.140	8.825
																				77104*	45	23.546	1.224	77176	29	23.885	3.384	77248*	93	5.258	6.879	77320	10	3.181	8.034
																				77105	24	24.579	1.844	77177	41	24.060	3.586	77249	10	5.726	6.484	77321	17	3.451	8.552
																				77106	15	25.600	1.990	77178	28	24.724	3.547	77250	35	5.916	6.048	77322	13	4.112	8.512
																				77107	28	25.748	1.309	77179	18	25.678	3.858	77251	36	6.678	6.266	77323	22	4.470	8.538
																				77108	42	0.141	2.510	77180	11	1.870	4.383	77252	20	6.906	6.235	77324	13	4.672	8.083
																				77109	10	0.334	2.551	77181	14	2.200	4.328	77253	13	7.886	6.265	77325	15	6.682	8.434
																				77110	10	0.842	2.804	77182	10	2.593	4.974	77254	10	8.280	6.334	77326	10	7.841	8.086
																				77111	14	2.456	2.474	77183	15	3.202	4.369	77255	38	8.752	6.720	77327	11	8.030	8.037
																				77112	24	2.524	2.150	77184	44	3.265	4.050	77256	10	9.876	6.109	77328	22	8.832	8.614
																				77113	10	2.580	2.646	77185	11	3.767	4.110	77257	10	10.756	6.691	77329	33	8.994	8.638
																				77114	38	4.104	2.210	77186	44	4.868	4.844	77258	22	10.847	6.636	77330	36	9.022	8.166
																				77115	39	4.180	2.557	77187	10	5.128	4.636	77259	10	11.714	6.390	77331	36	9.653	8.554
																				77116*	58	4.203	2.484	77188	11	5.524	4.508	77260	34	12.586	6.722	77332	27	11.346	8.030
																				77117	15	4.306	2.858	77189	22	6.419	4.800	77261	32	13.544	6.104	77333	19	11.955	8.570
																				77118	24	6.102	2.674	77190	10	6.440	4.396	77262	10	14.304	6.276	77334	32	12.092	8.116
																				77119	40	6.185	2.622	77191	10	7.270	4.961	77263	10	14.416	6.220	77335	10	12.308	8.194
																				77120	20	6.768	2.540	77192	10	8.951	4.334	77264	33	14.775	6.528	77336	27	12.450	8.886
																				77121*	50	7.035	2.349	77193	12	9.224	4.071	77265	10	14.981	6.874	77337	10	13.318	8.803
																				77122	26	9.084	2.385	77194	14	9.255	4.469	77266	16	15.241	6.626	77338	28	13.475	8.686
																				77123	12	9.535	2.594	77195*	43	10.010	4.996	77267	19	16.832	6.248	77339	33	13.516	8.097
																				77124	30	9.631	2.349	77196	12	10.520	4.151	77268	10	16.845	6.148	77340	20	13.856	8.945
																				77125	27	10.230	2.791	77197	22	10.824	4.978	77269	37	17.501	6.108	77341	10	13.967	8.620
																				77126	10	10.524	2.404	77198	22	11.126	4.798	77270	10	18.464	6.490	77342	13	13.975	8.542
																				77127	31	10.934	2.336	77199	10	11.272	4.240	77271	25	18.780	6.150	77343	10	14.685	8.296
																				77128	12	11.840	2.906	77200*	39	11.956	4.986	77272	10	20.410	6.924	77344	37	15.556	8.108
																				77129	10	11.926	2.141	77201	34	12.826	4.194	77273	37	22.097	6.725	77345	23	17.877	8.464
																				77130	10	13.629	2.366	77202	17	13.354	4.628	77274	11	22.142	6.528	77346	11	18.057	8.029
																				77131	12	15.902	2.826	77203	12	13.427	4.740	77275	10	23.774	6.318	77347*	58	18.610	8.094
																				77132	11	16.210	2.160	77204	10	15.332	4.980	77276	38	24.024	6.096	77348	11	19.646	8.086
																				77133	24	16.900	2.672	77205	17	17.940	4.400	77277	11	24.446	6.154	77349	11	19.891	8.149
																				77134	34	17.118	2.676	77206	12	17.944	4.830	77278	29	25.217	6.003	77350*	45	20.348	8.620
																				77135	34	18.031	2.696	77207	29	18.976	4.849	77279	31	25.360	6.734	77351	33	21.828	8.946
																				77136	29	18.594	2.660	77208	13	20.238	4.880	77280	45						



77364	26	6.750	9.850	77436	32	24.270	10.785	77508	10	16.642	12.632	77580	15	17.974	14.772	77652	12	12.266	16.310
77365	13	7.245	9.744	77437	10	24.664	10.807	77509	22	17.131	12.338	77581	34	18.420	14.728	77653*	47	12.716	16.941
77366	43	9.439	9.000	77438	41	0.785	11.150	77510	25	17.629	12.182	77582	36	18.726	14.544	77654	21	13.127	16.492
77367	13	10.229	9.800	77439	11	1.840	11.598	77511	10	17.826	12.357	77583	10	19.040	14.158	77655	16	13.442	16.916
77368	15	12.389	9.816	77440	10	2.414	11.966	77512	10	18.656	12.170	77584	10	19.464	14.823	77656	30	13.685	16.290
77369	14	14.526	9.958	77441	24	3.054	11.002	77513	10	19.024	12.080	77585	11	19.700	14.870	77657	14	13.770	16.310
77370	10	15.336	9.513	77442	10	4.029	11.097	77514	34	19.350	12.140	77586	31	20.355	14.450	77658	10	14.904	16.690
77371	32	16.011	9.425	77443	10	4.050	11.637	77515	37	20.506	12.930	77587	21	20.625	14.715	77659	28	15.818	16.366
77372	16	16.600	9.788	77444	10	4.365	11.439	77516	10	20.733	12.390	77588	23	21.221	14.025	77660	13	16.676	16.700
77373	21	18.098	9.866	77445	10	7.114	11.826	77517	24	21.150	12.389	77589	31	21.474	14.330	77661	10	17.545	16.405
77374	14	18.504	9.691	77446	21	7.264	11.427	77518	10	21.467	12.215	77590	18	22.214	14.950	77662	10	18.684	16.200
77375	12	18.610	9.058	77447	19	8.088	11.304	77519	32	22.218	12.034	77591	28	22.226	14.410	77663	10	20.290	16.362
77376	12	18.624	9.838	77448	40	8.640	11.509	77520	10	22.512	12.616	77592	16	23.486	14.956	77664	12	20.976	16.931
77377	15	18.693	9.136	77449	10	9.591	11.564	77521	24	22.594	12.219	77593	18	23.640	14.114	77665	10	21.755	16.140
77378	10	19.024	9.470	77450	28	10.098	11.133	77522	10	23.579	12.241	77594	26	23.820	14.664	77666	22	22.066	16.941
77379	10	19.277	9.360	77451	12	10.422	11.564	77523	18	24.082	12.380	77595	14	24.465	14.821	77667	26	22.600	16.124
77380	11	19.469	9.148	77452	26	10.867	11.889	77524	17	24.103	12.344	77596	10	24.545	14.805	77668	10	23.105	16.170
77381	32	19.662	9.731	77453	23	11.502	11.174	77525	20	24.469	12.780	77597	12	25.106	14.110	77669*	39	23.222	16.531
77382	11	20.260	9.554	77454	12	11.840	11.952	77526	10	0.325	13.409	77598	37	25.925	14.782	77670	10	23.289	16.625
77383	10	20.319	9.909	77455	10	12.616	11.346	77527	10	0.974	13.762	77599	15	0.171	15.941	77671	39	23.504	16.286
77384	17	20.666	9.020	77456	43	13.031	11.220	77528	10	1.196	13.602	77600	33	0.906	15.528	77672	22	23.776	16.832
77385	32	20.956	9.597	77457	10	13.435	11.708	77529	20	1.775	13.916	77601	10	1.270	15.696	77673	31	24.030	16.452
77386	34	21.342	9.506	77458	10	14.670	11.967	77530	10	2.180	13.174	77602	12	2.116	15.264	77674	33	24.634	16.769
77387*	47	21.522	9.179	77459	13	15.300	11.874	77531	10	2.580	13.800	77603	23	2.220	15.566	77675	24	2.651	17.450
77388	21	22.760	9.588	77460	26	15.338	11.018	77532	26	5.314	13.170	77604	10	2.329	15.902	77676	10	3.218	17.710
77389	10	22.840	9.504	77461	19	15.602	11.118	77533	11	6.104	13.217	77605	30	2.980	15.872	77677	18	3.674	17.931
77390	10	24.392	9.588	77462	10	16.516	11.557	77534	9	8.472	13.608	77606	10	3.052	15.914	77678	30	3.836	17.266
77391	25	24.525	9.122	77463	27	16.854	11.708	77535	26	8.832	13.244	77607	35	3.064	15.110	77679*	41	4.100	17.071
77392	26	24.962	9.938	77464	24	17.400	11.200	77536	30	10.080	13.161	77608	23	3.664	15.488	77680	18	4.990	17.846
77393	12	25.200	9.973	77465	10	18.046	11.943	77537	10	16.029	13.740	77609	24	6.250	15.152	77681	32	5.644	17.729
77394	16	25.350	9.760	77466	23	18.564	11.090	77538*	45	18.352	13.998	77610*	56	7.180	15.579	77682	18	5.662	17.140
77395	14	1.296	10.688	77467	10	20.212	11.830	77539	10	18.652	13.608	77611	11	7.305	15.935	77683	29	6.224	17.480
77396	32	2.563	10.026	77468	46	20.350	11.886	77540*	45	19.096	13.934	77612	40	10.123	15.250	77684	27	6.542	17.618
77397	14	2.790	10.627	77469	12	20.492	11.433	77541	43	19.794	13.740	77613	15	11.000	15.536	77685	37	10.092	17.240
77398*	54	3.088	10.718	77470	10	20.616	11.263	77542	10	20.770	13.652	77614	12	11.128	15.236	77686	10	10.387	17.643
77399	14	3.897	10.824	77471	24	20.740	11.310	77543	10	20.953	13.964	77615	10	12.803	15.728	77687	12	10.607	17.238
77400	10	3.929	10.983	77472	10	21.000	11.088	77544	10	21.684	13.576	77616	12	15.196	15.227	77688	41	11.470	17.765
77401	41	5.176	10.972	77473	18	21.296	11.933	77545	11	22.150	13.448	77617	13	16.193	15.666	77689	12	11.476	17.904
77402	10	5.876	10.539	77474*	45	21.680	11.010	77546	16	22.648	13.764	77618	19	17.020	15.802	77690	21	12.750	17.732
77403	10	5.894	10.621	77475*	38	21.916	11.231	77547	29	22.972	13.256	77619	43	17.349	15.224	77691	10	12.830	17.432
77404	29	7.234	10.028	77476	9	22.096	11.307	77548	25	25.148	13.532	77620	29	19.036	15.840	77692*	48	14.418	17.306
77405	15	9.210	10.602	77477	19	22.750	11.654	77549	30	25.834	13.110	77621	9	19.647	15.818	77693	30	14.675	17.322
77406	10	10.220	10.240	77478	10	22.785	11.501	77550	10	25.936	13.005	77622	10	19.816	15.376	77694*	43	15.054	17.099
77407	10	10.424	10.650	77479	12	22.882	11.930	77551	15	0.293	14.437	77623	27	20.450	15.841	77695	32	15.372	17.800
77408	33	10.803	10.880	77480	13	22.922	11.470	77552	30	0.380	14.200	77624	9	20.812	15.254	77696	10	15.780	17.164
77409	11	11.274	10.883	77481	10	23.580	11.718	77553	12	0.692	14.031	77625	10	21.208	15.838	77697	11	16.414	17.103
77410	12	11.278	10.243	77482	26	25.754	11.230	77554	11	0.852	14.017	77626*	56	21.640	15.371	77698	10	18.752	17.638
77411	20	11.284	10.826	77483	32	0.023	12.214	77555*	220	1.030	14.890	77627	10	23.135	15.435	77699	36	19.380	17.716
77412	32	11.560	10.190	77484	12	0.289	12.142	77556	37	1.232	14.584	77628	10	23.265	15.981	77700	10	20.112	17.520
77413	22	12.502	10.199	77485	16	1.795	12.116	77557	10	1.372	14.610	77629	28	24.495	15.410	77701	10	20.304	17.480
77414	10	13.154	10.215	77486	10	2.111	12.406	77558	10	2.333	14.574	77630	30	24.539	15.575	77702	10	20.913	17.554
77415	13	13.294	10.027	77487	13	2.492	12.302	77559	10	3.700	14.730	77631	19	0.076	16.324	77703	22	21.317	17.184
77416	10	14.864	10.728	77488	10	2.809	12.420	77560	10	3.884	14.550	77632	12	1.280	16.628	77704	13	21.888	17.080
77417	16	15.330	10.050	77489	10	3.506	12.616	77561	26	4.240	14.754	77633	12	1.300	16.567	77705	23	22.308	17.620
77418	10	15.364	10.118	77490	33	4.680	12.965	77562	34	5.296	14.413	77634	29	2.062	16.270	77706	10	23.510	17.320
77419	10	15.598	10.254	77491	45	5.158	12.286	77563	11	5.650	14.855	77635	10	2.527	16.082	77707	10	23.515	17.414
77420	13	16.449	10.696	77492	11	6.914	12.568	77564	12	6.959	14.360	77636	12	2.576	16.001	77708	10	23.678	17.907
77421	18	16.490	10.836	77493	10	7.384	12.909	77565	30	8.448	14.566	77637	10	3.558	16.189	77709	13	24.314	17.602
77422	25	17.258	10.746	77494	18	8.226	12.134	77566	12	9.624	14.573	77638	16	4.251	16.757	77710	10	0.122	18.198
77423	15	17.646	10.844	77495	30	8.740	12.360	77567	10	11.090	14.162	77639	24	4.310	16.102	77711	34	0.261	18.184
77424	10	17.806	10.246	77496	12	9.326	12.148	77568	24	12.084	14.734	77640	20	4.477	16.160	77712	10	1.070	18.012
77425	8	18.475	10.262	77497	41	9.380	12.799	77569	30	12.586	14.252	77641	12	5.178	16.187	77713	1		



77724	30	8.694	18.364	77796	19	7.718	20.614	77868	18	12.268	22.356	77940	13	9.920	24.930	78012	10	25.910	25.786
77725	38	8.960	18.452	77797	24	7.920	20.168	77869	20	13.900	22.366	77941	10	10.075	24.546	78013	10	25.948	25.224
77726	10	9.291	18.243	77798	23	9.536	20.168	77870	36	14.985	22.358	77942	10	10.362	24.620	78014	16	25.998	25.780
77727	12	9.460	18.654	77799	11	9.812	20.266	77871	10	15.163	22.760	77943	27	10.828	24.740				
77728	10	9.606	18.156	77800	21	12.380	20.994	77872	10	16.668	22.912	77944	13	10.872	24.796				
77729	12	10.594	18.439	77801	22	12.424	20.485	77873	22	17.676	22.239	77945	10	12.626	24.781				
77730	10	10.594	18.378	77802	10	13.568	20.852	77874	20	17.681	22.029	77946	10	12.764	24.932				
77731	34	11.131	18.974	77803	30	14.120	20.904	77875	33	18.104	22.280	77947	9	12.889	24.882				
77732	25	11.216	18.011	77804	10	14.384	20.700	77876	21	19.632	22.462	77948	10	13.290	24.212				
77733	12	11.436	18.348	77805	11	16.220	20.764	77877	20	20.125	22.285	77949	10	14.711	24.005				
77734	10	11.640	18.318	77806	12	16.869	20.379	77878	28	21.451	22.178	77950	23	15.032	24.100				
77735	21	11.857	18.398	77807	12	17.945	20.240	77879	10	21.499	22.482	77951	14	15.218	24.142				
77736	13	12.502	18.266	77808	30	18.726	20.136	77880	10	21.938	22.910	77952	12	16.292	24.452				
77737	30	12.598	18.108	77809	30	18.960	20.572	77881	34	22.376	22.252	77953	10	16.593	24.948				
77738	10	13.187	18.854	77810	12	19.747	20.852	77882	11	23.700	22.375	77954	12	17.178	24.888				
77739	28	15.796	18.284	77811	35	20.746	20.327	77883	10	25.908	22.319	77955	13	17.342	24.920				
77740	10	16.440	18.048	77812*	43	20.855	20.374	77884	12	0.200	23.456	77956	14	17.408	24.454				
77741	13	16.752	18.525	77813	15	21.878	20.711	77885	11	0.429	23.114	77957	10	17.572	24.598				
77742	18	17.568	18.673	77814*	48	23.550	20.500	77886	11	0.527	23.717	77958	13	18.018	24.641				
77743	40	17.868	18.125	77815	11	23.678	20.750	77887	10	2.590	23.759	77959*	50	18.052	24.390				
77744	10	18.914	18.044	77816	11	24.404	20.360	77888	11	3.425	23.648	77960	15	19.348	24.946				
77745	35	18.930	18.031	77817	10	24.416	20.939	77889	29	3.684	23.134	77961	25	19.820	24.318				
77746	38	19.032	18.174	77818	43	25.755	20.143	77890	32	4.212	23.504	77962	10	20.031	24.718				
77747	10	19.296	18.339	77819	16	25.886	20.370	77891	10	6.164	23.026	77963	10	20.935	24.577				
77748	44	19.589	18.655	77820	23	0.680	21.077	77892	33	6.206	23.552	77964	19	21.617	24.558				
77749	32	19.856	18.002	77821	27	1.675	21.904	77893	32	6.542	23.070	77965	12	22.081	24.791				
77750	14	21.777	18.510	77822	27	1.795	21.482	77894	10	6.900	23.888	77966	10	23.652	24.500				
77751	10	23.672	18.549	77823	12	3.240	21.395	77895	30	7.496	23.989	77967	21	23.982	24.173				
77752	15	23.894	18.502	77824	10	3.288	21.168	77896	26	8.007	23.182	77968	16	24.254	24.690				
77753	10	24.344	18.472	77825	11	3.930	21.492	77897	34	9.025	23.164	77969	10	24.494	24.686				
77754	14	25.126	18.650	77826	10	4.224	21.329	77898	10	9.365	23.686	77970	30	24.536	24.354				
77755	10	25.589	18.380	77827	18	4.350	21.092	77899	12	10.696	23.100	77971	10	25.316	24.221				
77756	12	0.454	19.527	77828	10	5.364	21.339	77900	22	11.004	23.646	77972	13	0.638	25.426				
77757	13	0.845	19.099	77829	10	6.114	21.418	77901	10	11.624	23.850	77973	22	0.652	25.888				
77758*	43	0.980	19.593	77830	34	6.145	21.188	77902	12	13.514	23.270	77974	20	1.152	25.656				
77759	11	1.066	19.804	77831	10	7.446	21.708	77903	34	13.585	23.769	77975	22	1.406	25.817				
77760	22	6.180	19.625	77832	9	7.589	21.944	77904	10	13.888	23.591	77976	20	3.220	25.048				
77761	18	6.220	19.280	77833	34	7.638	21.905	77905	24	14.298	23.616	77977	12	4.826	25.652				
77762	28	6.606	19.090	77834	20	8.100	21.858	77906	15	14.426	23.002	77978	44	4.920	25.284				
77763	14	7.445	19.174	77835	20	8.637	21.026	77907	13	14.575	23.784	77979	14	5.036	25.684				
77764	14	10.390	19.268	77836	18	11.120	21.020	77908	15	15.023	23.027	77980	20	5.102	25.569				
77765	10	10.538	19.486	77837	10	12.715	21.356	77909	20	15.334	23.520	77981	10	5.426	25.718				
77766	10	10.736	19.595	77838	24	13.125	21.904	77910	13	15.772	23.352	77982	30	6.912	25.532				
77767	17	11.075	19.040	77839	38	13.760	21.092	77911	41	15.842	23.221	77983	14	7.520	25.488				
77768	18	11.324	19.778	77840	10	13.840	21.480	77912	23	17.470	23.214	77984	54	7.532	25.513				
77769	15	11.844	19.885	77841	42	14.739	21.966	77913	32	18.116	23.916	77985	19	7.874	25.072				
77770	34	13.390	19.408	77842	10	15.224	21.230	77914	14	19.660	23.702	77986	14	8.110	25.966				
77771	31	13.472	19.672	77843	16	16.119	21.545	77915*	48	19.865	23.918	77987	11	8.919	25.050				
77772	10	14.597	19.464	77844	10	17.230	21.846	77916	11	20.486	23.586	77988	27	9.958	25.939				
77773	12	15.121	19.170	77845	37	17.785	21.294	77917	10	20.712	23.713	77989	20	10.272	25.294				
77774	12	15.269	19.574	77846	16	18.360	21.853	77918*	54	21.411	23.422	77990	25	11.162	25.735				
77775	16	15.693	19.740	77847	10	18.658	21.632	77919	18	21.712	23.804	77991	10	11.226	25.206				
77776	13	16.190	19.242	77848	12	20.446	21.226	77920	24	21.883	23.478	77992	30	11.846	25.102				
77777	10	18.206	19.769	77849*	44	22.775	21.792	77921	17	22.108	23.959	77993	42	12.020	25.462				
77778	37	20.430	19.884	77850	18	23.740	21.886	77922	15	22.190	23.028	77994	15	12.080	25.710				
77779	34	20.875	19.841	77851	28	1.999	22.502	77923	28	22.400	23.228	77995	10	12.240	25.960				
77780	20	21.532	19.276	77852*	47	3.330	22.530	77924	36	23.124	23.102	77996	56	12.350	25.670				
77781	10	21.738	19.756	77853	20	4.082	22.678	77925	34	24.192	23.838	77997	10	12.488	25.379				
77782	39	21.745	19.388	77854	10	4.330	22.856	77926	33	25.707	23.448	77998	38	13.384	25.696				
77783	19	21.822	19.608	77855	15	4.734	22.876	77927	13	25.754	23.008	77999	35	14.184	25.893				
77784	35	22.236	19.800	77856	10	4.760	22.804	77928	10	0.815	24.812	78000	10	14.629	25.630				
77785	10	22.960	19.892	77857	38	5.378	22.666	77929	10	2.197	24.606	78001	10	15.248	25.469				
77786	40	24.000	19.098	77858	19	5.650	22.366	77930	25	2.548	24.950	78002	13	16.216	25.009				
77787	31	24.205	19.276	77859	12	7.056	22.647	77931	36	2.830	24.166	78003	14	16.490	25.062				
77788	10	24.572	19.280	77860	10	7.828	22.634	77932	14	3.742	24.502	78004	30	17.734	25.137				
77789	44	25.888	19.379	77861*	80	8.516	22.320	77933	11	4.920	24.942	78005	12	18.751	25.480				
77790	10	0.242	20.762	77862	24	9.206	22.288	77934	29	5.935	24.800	78006	10	20.448	25.479				
77791*	58	0.860	20.066	77863	10	9.758	22.912	77935	10	6.121	24.495	78007	10	20.502	25.190				
77792	32	1.564	20.352	77864	21	10.041	22.534	77936	10	6.402	24.540	78008	25	20.732	25.147				
77793	10	2.228	20.352	7															



78096	12	1.486	1.986	78168	16	14.359	2.618	78240	8	8.310	4.454	78312	16	1.827	6.176	78384	8	8.588	7.676
78097	47	1.592	1.506	78169	10	14.424	2.372	78241	22	8.965	4.238	78313	9	1.863	6.594	78385	12	9.047	7.233
78098	8	2.893	1.976	78170	14	15.087	2.656	78242	34	9.716	4.169	78314	40	2.110	6.372	78386	19	10.252	7.792
78099	10	3.564	1.566	78171	9	15.748	2.790	78243	10	10.638	4.512	78315	8	2.488	6.550	78387	8	11.260	7.134
78100	26	3.800	1.572	78172	53	16.170	2.460	78244	9	12.294	4.248	78316	14	2.534	6.426	78388	10	11.486	7.833
78101	9	4.903	1.562	78173	8	16.311	2.250	78245	10	12.306	4.025	78317	26	3.303	6.270	78389	8	12.427	7.516
78102	19	7.444	1.336	78174	19	16.858	2.027	78246	8	13.345	4.272	78318	27	3.450	6.998	78390	10	12.454	7.524
78103	50	7.598	1.886	78175	32	16.986	2.070	78247	32	13.900	4.622	78319	45	3.704	6.402	78391	19	13.418	7.568
78104	16	7.823	1.106	78176	18	18.164	2.002	78248	8	14.233	4.636	78320	9	4.688	6.110	78392	32	14.177	7.800
78105	44	7.904	1.137	78177	32	18.428	2.158	78249	9	14.612	4.630	78321	50	4.882	6.492	78393	9	14.307	7.484
78106	20	7.904	1.932	78178	18	18.716	2.148	78250	20	14.713	4.712	78322	8	4.894	6.367	78394	21	14.784	7.612
78107	16	9.057	1.178	78179	10	19.074	2.972	78251	10	14.858	4.280	78323	19	5.746	6.618	78395	9	15.516	7.484
78108	23	9.123	1.444	78180	19	19.936	2.628	78252	30	15.066	4.382	78324	16	6.402	6.196	78396	12	17.273	7.018
78109	8	9.860	1.933	78181	40	20.790	2.425	78253	10	15.346	4.617	78325	18	6.571	6.839	78397	24	17.307	7.068
78110	30	10.952	1.082	78182	41	22.769	2.856	78254	19	15.660	4.898	78326	20	7.320	6.341	78398	10	17.368	7.804
78111	20	10.998	1.670	78183	14	22.836	2.625	78255	8	16.304	4.956	78327	9	7.431	6.400	78399	8	17.636	7.648
78112	40	11.210	1.623	78184	43	22.986	2.927	78256	14	16.324	4.797	78328	19	7.748	6.662	78400	26	18.468	7.124
78113	19	11.510	1.978	78185	8	25.372	2.437	78257	19	16.663	4.240	78329	18	8.840	6.510	78401	19	18.538	7.080
78114	11	11.568	1.338	78186	11	25.523	2.422	78258	10	16.802	4.118	78330	24	8.972	6.324	78402	18	18.694	7.112
78115	13	11.787	1.632	78187	25	1.075	3.119	78259	8	17.353	4.142	78331	13	8.988	6.546	78403	20	18.992	7.166
78116	16	12.452	1.472	78188	22	1.952	3.662	78260	24	17.549	4.345	78332	8	9.323	6.389	78404	20	19.344	7.554
78117	13	13.224	1.492	78189	41	2.126	3.862	78261	13	18.049	4.224	78333	18	10.358	6.716	78405	42	21.535	7.288
78118	16	13.819	1.806	78190	28	2.792	3.820	78262	14	18.235	4.807	78334	19	10.784	6.252	78406	10	21.806	7.988
78119	11	13.825	1.087	78191	37	2.868	3.132	78263	14	18.336	4.368	78335	17	10.810	6.068	78407	14	22.148	7.826
78120	26	14.336	1.314	78192	9	3.140	3.865	78264	36	18.484	4.247	78336	20	10.863	6.786	78408	32	22.537	7.700
78121	21	14.554	1.582	78193	16	4.210	3.081	78265	10	18.875	4.767	78337	28	10.934	6.642	78409	15	22.648	7.512
78122	49	15.612	1.163	78194	15	4.460	3.063	78266	12	19.048	4.297	78338	18	10.983	6.138	78410	25	23.676	7.292
78123	10	16.462	1.640	78195	9	5.816	3.212	78267	9	19.087	4.698	78339	26	11.024	6.426	78411	33	24.439	7.838
78124	8	16.683	1.926	78196	19	6.726	3.270	78268	24	19.230	4.435	78340	19	11.320	6.957	78412	19	25.063	7.308
78125	12	17.046	1.670	78197	8	7.811	3.492	78269	58	20.007	4.859	78341	17	11.521	6.456	78413	35	1.689	8.842
78126	39	17.614	1.346	78198	13	8.257	3.486	78270	11	21.756	4.147	78342	22	11.963	6.528	78414	9	2.238	8.303
78127	16	18.095	1.768	78199	41	8.412	3.064	78271	11	22.118	4.115	78343	8	12.908	6.798	78415	52	2.790	8.230
78128	27	18.150	1.552	78200	9	8.643	3.352	78272	24	22.186	4.214	78344	28	12.978	6.002	78416	20	4.576	8.654
78129	10	19.079	1.656	78201	21	10.653	3.977	78273	25	23.540	4.924	78345	19	13.058	6.748	78417	10	4.897	8.434
78130	9	19.344	1.232	78202	11	11.132	3.812	78274	32	24.494	4.380	78346	39	13.140	6.980	78418	8	5.574	8.212
78131	8	20.070	1.602	78203	14	11.460	3.332	78275	19	24.728	4.446	78347	52	14.362	6.723	78419	8	5.688	8.304
78132	41	21.689	1.722	78204	17	11.710	3.048	78276	20	0.447	5.058	78348	20	14.520	6.636	78420	10	5.798	8.882
78133	27	22.266	1.640	78205	8	12.082	3.598	78277	33	3.073	5.188	78349	44	14.917	6.788	78421	13	5.940	8.517
78134	14	22.666	1.794	78206	11	12.436	3.193	78278	10	3.200	5.693	78350	8	15.344	6.634	78422	12	7.412	8.251
78135	12	22.873	1.784	78207	14	12.562	3.535	78279	16	4.797	5.018	78351	22	15.733	6.228	78423	10	7.434	8.562
78136	26	23.480	1.654	78208	23	13.414	3.172	78280	26	4.956	5.752	78352	13	15.762	6.708	78424	10	8.454	8.718
78137	23	23.535	1.492	78209	13	13.448	3.340	78281	21	5.299	5.128	78353	10	16.354	6.168	78425	26	9.076	8.687
78138	27	23.536	1.898	78210	13	13.917	3.721	78282	23	5.957	5.856	78354	18	16.966	6.110	78426	23	9.773	8.660
78139	9	23.630	1.022	78211	16	15.514	3.833	78283	9	5.965	5.810	78355	20	17.384	6.182	78427	8	10.094	8.807
78140	8	25.496	1.465	78212	11	16.184	3.892	78284	36	5.982	5.569	78356	16	17.906	6.254	78428	11	10.416	8.728
78141	15	0.357	2.260	78213	12	16.599	3.297	78285	12	6.167	5.004	78357	19	18.727	6.312	78429	25	10.418	8.678
78142	43	0.638	2.557	78214	8	16.781	3.398	78286	48	7.493	5.760	78358	48	18.962	6.478	78430	14	10.560	8.968
78143	14	0.686	2.678	78215	22	18.008	3.567	78287	20	7.782	5.797	78359	8	19.960	6.426	78431	44	10.900	8.472
78144	40	0.692	2.702	78216	8	18.537	3.192	78288	9	8.655	5.640	78360	8	21.183	6.681	78432	12	11.308	8.582
78145	10	1.438	2.649	78217	24	18.694	3.977	78289	20	10.494	5.592	78361	8	21.578	6.354	78433	10	12.000	8.510
78146	20	2.276	2.444	78218	12	18.751	3.431	78290	22	10.870	5.698	78362	10	21.606	6.938	78434	29	12.029	8.438
78147	21	2.636	2.116	78219	42	18.899	3.882	78291	8	11.448	5.308	78363	9	21.618	6.444	78435	27	12.040	8.571
78148	16	3.440	2.563	78220	10	19.132	3.883	78292	11	12.223	5.306	78364	12	21.784	6.815	78436	18	12.096	8.566
78149	18	3.656	2.253	78221	10	19.289	3.744	78293	14	12.392	5.768	78365	18	21.890	6.756	78437	21	12.271	8.094
78150	16	4.850	2.273	78222	30	19.804	3.510	78294	9	12.570	5.658	78366	34	23.387	6.402	78438	24	12.849	8.978
78151	28	5.353	2.515	78223	10	20.403	3.037	78295	9	12.582	5.577	78367	12	24.705	6.352	78439	10	13.015	8.669
78152	53	5.596	2.262	78224	14	21.042	3.582	78296	26	15.107	5.436	78368	8	24.869	6.075	78440	9	13.522	8.850
78153	28	5.748	2.768	78225	26	21.213	3.215	78297	20	16.348	5.360	78369	33	25.000	6.750	78441	16	13.824	8.222
78154	32	7.199	2.094	78226	11	22.508	3.189	78298	10	16.709	5.141	78370	14	25.210	6.236	78442	8	14.454	8.700
78155	8	8.754	2.811	78227	19	24.216	3.916	78299	24	17.598	5.432	78371	33	0.188	7.014	78443	20	14.566	8.060
78156	20	8.758	2.612	78228	19	24.230	3.286	78300	9	18.089	5.818	78372	22	0.768	7.502	78444	32	14.683	8.051
78157	8	9.749	2.078	78229	12	24.469	3.492	78301	41	18.128	5.379	78373	15	1.417	7.984	78445	32	14.744	8.456
78158	21	9.854	2.403	78230	17	25.016	3.704	78302	8	18.292	5.810	78374	11	3.040	7.689	78446	12	14.889	8.140
78159	10	10.914	2.536	78231	30	0.041	4.664	78303	31	19.874	5.4								



78456	16	17.326	8.984	78528	16	4.578	10.307	78600*	44	10.132	11.164	78672	15	13.283	12.617	78744	11	20.320	13.264
78457	14	17.636	8.594	78529	10	5.330	10.838	78601	13	10.161	11.334	78673	8	13.312	12.270	78745	22	20.450	13.758
78458	10	20.122	8.214	78530	24	5.557	10.403	78602	21	10.426	11.373	78674	40	14.941	12.042	78746	8	21.046	13.232
78459	26	21.206	8.440	78531	19	5.768	10.100	78603	14	10.966	11.092	78675	16	15.006	12.760	78747	24	21.326	13.408
78460	20	21.677	8.471	78532	16	6.853	10.542	78604	12	11.062	11.116	78676	10	15.278	12.077	78748	9	21.450	13.390
78461	9	23.024	8.544	78533	52	6.866	10.354	78605	11	11.148	11.988	78677	20	15.306	12.758	78749	9	21.666	13.992
78462	15	23.342	8.766	78534	18	7.932	10.250	78606	8	11.376	11.466	78678	8	15.578	12.556	78750	13	22.098	13.698
78463	13	24.138	8.588	78535	20	8.222	10.464	78607	24	11.798	11.179	78679*	50	15.580	12.252	78751	34	22.236	13.760
78464	14	24.421	8.751	78536	20	8.353	10.341	78608	34	12.894	11.682	78680	8	15.732	12.968	78752	18	22.840	13.939
78465	14	25.178	8.644	78537	8	8.511	10.298	78609	33	13.202	11.652	78681	22	16.138	12.980	78753	9	22.984	13.980
78466	11	25.256	8.906	78538	13	8.782	10.846	78610	11	13.308	11.122	78682	25	19.070	12.228	78754	41	23.694	13.035
78467	18	25.472	8.370	78539	8	9.554	10.778	78611	21	13.868	11.376	78683	32	19.315	12.552	78755	26	0.378	14.698
78468	30	0.727	9.268	78540	14	9.972	10.760	78612	21	14.353	11.151	78684	9	19.644	12.418	78756	18	0.794	14.050
78469	19	0.874	9.872	78541	11	10.362	10.988	78613	10	14.536	11.758	78685	16	20.973	12.824	78757	18	1.790	13.393
78470	8	0.956	9.790	78542	27	11.397	10.474	78614	18	14.944	11.694	78686	9	21.858	12.811	78758	20	1.974	14.942
78471	20	1.452	9.058	78543	12	12.298	10.556	78615	10	16.406	11.640	78687	9	22.146	12.438	78759	18	3.254	14.375
78472	8	2.182	9.477	78544	8	12.976	10.109	78616	10	16.458	11.128	78688	14	22.312	12.184	78760	10	4.460	14.050
78473	16	2.435	9.002	78545	14	13.156	10.069	78617	13	16.914	11.246	78689	17	23.658	12.859	78761	34	4.513	14.343
78474	13	2.506	9.862	78546	18	13.346	10.320	78618	20	17.173	11.727	78690	18	23.834	12.318	78762	16	4.938	14.509
78475	8	2.564	9.173	78547	14	13.545	10.352	78619	37	17.380	11.436	78691	14	24.496	12.788	78763	32	5.681	14.942
78476	24	2.636	9.394	78548	17	13.740	10.986	78620	8	18.096	11.087	78692	10	24.497	12.988	78764	14	5.748	14.778
78477	9	3.166	9.782	78549	8	14.085	10.282	78621	10	18.658	11.484	78693	9	24.793	12.594	78765	22	5.833	14.346
78478	8	3.328	9.564	78550*	80	14.720	10.542	78622	14	18.674	11.815	78694	12	25.740	12.858	78766	8	6.382	14.540
78479	18	4.877	9.622	78551	23	15.322	10.378	78623	17	18.957	11.262	78695	10	0.297	13.738	78767	23	6.582	14.033
78480	14	6.843	9.883	78552	11	15.532	10.018	78624	9	19.290	11.745	78696	25	1.114	13.538	78768	9	6.637	14.744
78481	13	7.682	9.970	78553	32	15.692	10.940	78625	22	19.866	11.350	78697	9	2.430	13.386	78769	12	6.678	14.093
78482	15	7.682	9.992	78554	25	16.310	10.054	78626	20	20.643	11.091	78698	18	2.608	13.050	78770	18	6.879	14.216
78483	8	8.344	9.122	78555	18	17.260	10.977	78627*	45	20.834	11.193	78699	21	3.293	13.798	78771	23	7.193	14.038
78484	28	8.845	9.343	78556	31	17.294	10.322	78628	9	21.148	11.116	78700	27	3.974	13.371	78772	24	7.942	14.630
78485	18	8.967	9.124	78557	8	17.700	10.879	78629	11	21.218	11.562	78701	13	4.078	13.264	78773	10	8.156	14.963
78486	8	9.042	9.868	78558	13	18.006	10.796	78630	13	21.317	11.188	78702	9	5.155	13.997	78774	12	8.320	14.302
78487	9	9.632	9.185	78559	11	18.076	10.366	78631*	53	21.317	11.447	78703*	52	5.348	13.515	78775	8	8.587	14.146
78488	14	10.078	9.008	78560	9	18.770	10.209	78632	10	21.677	11.373	78704	24	5.579	13.214	78776	32	9.052	14.319
78489	11	10.442	9.216	78561	26	19.397	10.601	78633	12	21.845	11.304	78705	13	5.894	13.644	78777	8	9.156	14.168
78490	26	10.710	9.960	78562	24	19.664	10.637	78634	19	21.919	11.227	78706	10	6.149	13.324	78778	30	10.050	14.282
78491	9	12.512	9.290	78563	12	19.909	10.420	78635	22	22.037	11.552	78707	12	6.200	13.367	78779	31	11.000	14.262
78492	25	12.598	9.052	78564	8	19.960	10.858	78636	11	22.504	11.872	78708	25	7.344	13.358	78780	21	12.729	14.544
78493	8	12.820	9.888	78565	8	21.483	10.213	78637	10	22.806	11.263	78709	9	7.416	13.627	78781	15	12.763	14.370
78494*	46	13.016	9.268	78566	8	22.468	10.118	78638	23	23.213	11.272	78710	19	7.558	13.592	78782	29	12.964	14.260
78495	38	13.723	9.549	78567	9	23.821	10.254	78639	28	24.080	11.572	78711	11	9.172	13.923	78783	18	13.310	14.242
78496	9	14.723	9.858	78568	23	23.924	10.223	78640	20	24.291	11.268	78712	19	9.315	13.284	78784	11	13.460	14.880
78497	23	15.075	9.264	78569	23	24.570	10.183	78641	27	24.574	11.382	78713	14	9.508	13.385	78785	9	14.010	14.907
78498	16	16.278	9.679	78570	26	25.020	10.992	78642	9	25.290	11.221	78714	20	9.683	13.562	78786	15	14.248	14.148
78499	9	16.652	9.010	78571	18	25.524	10.844	78643	32	0.350	12.322	78715	10	9.832	13.301	78787	12	16.884	14.279
78500	11	17.088	9.200	78572	10	25.678	10.910	78644	10	0.648	12.902	78716	19	9.836	13.042	78788	11	16.928	14.068
78501	19	18.013	9.350	78573	15	25.700	10.538	78645	20	0.728	12.503	78717	13	12.077	13.657	78789	22	17.356	14.680
78502	8	18.331	9.362	78574*	40	0.040	11.522	78646	9	0.753	12.842	78718	13	12.234	13.557	78790	31	17.612	14.521
78503	19	18.544	9.292	78575	8	0.226	11.595	78647	15	1.014	12.216	78719	26	12.487	13.676	78791	11	17.860	14.510
78504	30	18.890	9.926	78576	20	0.883	11.941	78648	9	1.264	12.674	78720	25	13.280	13.914	78792	10	19.357	14.398
78505	14	19.517	9.702	78577	13	0.914	11.782	78649	10	1.423	12.534	78721	12	13.442	13.938	78793	8	19.899	14.954
78506	31	19.720	9.694	78578	17	1.050	11.756	78650	22	2.217	12.656	78722	18	14.620	13.071	78794	14	20.126	14.412
78507	9	20.068	9.038	78579	8	1.358	11.970	78651	19	2.240	12.618	78723	17	14.693	13.172	78795	8	21.138	14.614
78508*	53	20.611	9.992	78580	24	1.884	11.130	78652	20	4.446	12.888	78724	8	15.012	13.052	78796	13	22.040	14.190
78509	8	21.142	9.960	78581	32	1.946	11.210	78653	23	4.865	12.990	78725	9	15.212	13.034	78797	40	23.436	14.040
78510	27	21.599	9.610	78582	31	2.394	11.056	78654	21	4.924	12.203	78726	21	15.856	13.356	78798	12	23.903	14.688
78511	9	22.099	9.372	78583	9	2.684	11.947	78655	11	5.432	12.854	78727	17	15.896	13.454	78799	19	0.371	15.240
78512	8	22.744	9.775	78584	14	2.788	11.076	78656	13	5.485	12.435	78728	32	16.302	13.846	78800	13	1.294	15.715
78513	8	22.874	9.870	78585	24	3.881	11.492	78657	18	6.412	12.816	78729	13	16.572	13.816	78801	18	1.642	15.235
78514	27	23.304	9.404	78586	12	4.733	11.070	78658	11	6.900	12.344	78730	15	16.854	13.191	78802	19	2.618	15.093
78515*	59	23.628	9.492	78587	45	4.870	11.235	78659	13	7.468	12.356	78731	10	17.096	13.990	78803	22	2.654	15.680
78516	29	24.198	9.588	78588	12	4.900	11.087	78660	22	7.836	12.898	78732	11	17.188	13.906	78804	26	2.698	15.845
78517	15	24.262	9.846	78589	19	5.261	11.078	78661	19	7.951	12.252	78733	28	17.513	13.116	78805	8	2.698	15.074
78518*	48	24.604	9.974	78590	16	5.483	11.219												



78816	12	10-662	15-261	78888	14	0-062	17-372	78960	11	8-628	18-818	79032	10	14-529	19-560	79104	10	2-618	21-208
78817	12	10-874	15-558	78889	24	0-237	17-230	78961	11	9-146	18-548	79033	41	14-856	19-785	79105	32	4-328	21-196
78818	22	10-984	15-188	78890	24	0-486	17-908	78962	19	9-394	18-112	79034	14	14-902	19-768	79106	14	4-742	21-985
78819	13	12-746	15-946	78891	10	1-200	17-584	78963	14	9-818	18-912	79035	8	15-794	19-604	79107	22	5-170	21-798
78820	8	13-344	15-332	78892	10	1-624	17-180	78964	39	9-930	18-786	79036	26	15-969	19-464	79108	8	6-210	21-957
78821	9	14-431	15-432	78893	23	1-946	17-108	78965	25	10-300	18-853	79037	10	17-346	19-755	79109	19	6-710	21-684
78822	41	14-588	15-060	78894	9	2-410	17-205	78966	21	10-557	18-210	79038	10	18-126	19-130	79110	12	7-142	21-872
78823	24	14-963	15-700	78895	19	2-490	17-875	78967	9	10-716	18-409	79039	8	18-341	19-332	79111	10	7-206	21-740
78824	8	16-872	15-392	78896	30	2-802	17-038	78968	8	10-787	18-280	79040	43	19-708	19-476	79112	13	8-202	21-576
78825	10	17-391	15-070	78897	8	5-715	17-752	78969	43	11-205	18-566	79041	26	20-552	19-260	79113	11	8-629	21-804
78826	12	17-602	15-446	78898	16	6-488	17-438	78970	11	11-726	18-437	79042	13	20-780	19-946	79114	9	8-930	21-365
78827	27	18-302	15-328	78899	10	6-960	17-970	78971	9	12-328	18-682	79043	23	21-101	19-284	79115	9	9-731	21-628
78828	8	18-615	15-690	78900	28	7-238	17-262	78972	14	12-392	18-120	79044	18	21-206	19-908	79116	73	9-816	21-094
78829	32	18-648	15-385	78901	8	7-285	17-350	78973	28	13-062	18-152	79045	25	22-240	19-289	79117	31	10-906	21-402
78830	20	19-636	15-420	78902	9	8-268	17-936	78974	8	13-401	18-360	79046	11	23-426	19-654	79118	46	10-976	21-466
78831	12	20-068	15-316	78903	52	8-690	17-848	78975	36	13-914	18-164	79047	8	24-318	19-340	79119	13	12-194	21-420
78832	11	21-746	15-906	78904	11	8-696	17-593	78976	14	14-475	18-470	79048	20	25-470	19-992	79120	10	12-222	21-468
78833	19	21-788	15-822	78905	9	8-821	17-470	78977	9	14-701	18-956	79049	39	0-428	20-087	79121	19	12-786	21-452
78834	8	23-484	15-550	78906	15	9-004	17-168	78978	9	15-171	18-788	79050	10	1-154	20-177	79122	25	13-068	21-908
78835	19	24-213	15-848	78907	8	9-368	17-708	78979	8	16-141	18-200	79051	58	1-744	20-776	79123	20	13-310	21-008
78836	25	24-830	15-788	78908	20	9-435	17-869	78980	10	16-328	18-202	79052	14	2-602	20-631	79124	33	13-524	21-410
78837	23	24-898	15-892	78909	9	10-014	17-597	78981	39	16-444	18-518	79053	12	3-636	20-771	79125	9	13-623	21-592
78838	20	25-013	15-269	78910	42	10-776	17-733	78982	22	17-107	18-603	79054	43	3-950	20-403	79126	8	13-808	21-071
78839	16	25-150	15-407	78911	16	10-790	17-008	78983	15	17-240	18-573	79055	19	4-084	20-628	79127	40	14-212	21-738
78840	19	25-436	15-972	78912	9	11-276	17-328	78984	41	17-388	18-148	79056	11	4-716	20-982	79128	10	14-434	21-240
78841	21	25-823	15-044	78913	12	11-707	17-854	78985	22	18-141	18-400	79057	34	5-387	20-974	79129	12	15-991	21-808
78842	22	0-765	16-410	78914	10	12-282	17-820	78986	17	18-162	18-222	79058	8	5-532	20-944	79130	9	16-038	21-660
78843	10	1-272	16-452	78915	24	12-378	17-823	78987	36	19-022	18-252	79059	32	5-767	20-594	79131	33	16-160	21-312
78844	42	1-388	16-810	78916	16	13-312	17-979	78988	17	19-064	18-339	79060	13	7-184	20-488	79132	19	16-187	21-234
78845	11	1-430	16-260	78917	35	13-383	17-004	78989	8	19-346	18-350	79061	37	7-596	20-538	79133	21	16-337	21-298
78846	43	1-668	16-562	78918	13	13-432	17-026	78990	16	19-724	18-318	79062	10	8-156	20-802	79134	25	16-382	21-465
78847	25	2-200	16-728	78919	12	14-408	17-852	78991	20	20-379	18-588	79063	14	8-972	20-260	79135	18	16-513	21-247
78848	10	3-159	16-664	78920	12	14-423	17-672	78992	40	21-662	18-476	79064	8	9-309	20-434	79136	11	16-549	21-406
78849	8	3-501	16-228	78921	9	14-683	17-210	78993	8	22-148	18-578	79065	10	9-680	20-860	79137	10	17-092	21-858
78850	8	4-057	16-110	78922	18	14-936	17-148	78994	16	22-352	18-512	79066	10	10-972	20-373	79138	8	17-168	21-765
78851	14	4-526	16-914	78923	17	15-466	17-057	78995	13	22-518	18-828	79067	9	11-300	20-594	79139	18	17-756	21-840
78852	9	5-343	16-682	78924	40	16-127	17-709	78996	14	22-542	18-768	79068	42	11-526	20-022	79140	10	17-888	21-586
78853	55	6-126	16-948	78925	10	16-556	17-740	78997	30	22-688	18-122	79069	11	11-846	20-320	79141	21	18-908	21-808
78854	8	6-266	16-205	78926	16	16-598	17-708	78998	9	23-538	18-096	79070	23	13-506	20-816	79142	20	19-423	21-535
78855	18	6-886	16-717	78927	13	17-246	17-152	78999	8	24-360	18-850	79071	39	13-535	20-700	79143	24	19-425	21-856
78856	41	6-948	16-554	78928	17	17-295	17-791	79000	33	24-894	18-281	79072	17	13-906	20-767	79144	29	20-094	21-047
78857	10	7-330	16-522	78929	10	17-668	17-710	79001	8	25-097	18-928	79073	11	14-102	20-354	79145	26	20-592	21-857
78858	8	7-673	16-130	78930	39	17-680	17-484	79002	16	0-014	19-900	79074	8	14-875	20-450	79146	10	21-851	21-748
78859	10	7-716	16-618	78931	13	18-491	17-316	79003	44	2-186	19-372	79075	9	14-986	20-053	79147	8	22-650	21-478
78860	31	7-955	16-346	78932	40	19-650	17-554	79004	31	2-393	19-550	79076	20	15-175	20-553	79148	19	22-670	21-060
78861	9	8-216	16-262	78933	8	19-941	17-726	79005	10	2-762	19-548	79077	13	15-356	20-558	79149	9	23-237	21-513
78862	12	8-598	16-836	78934	30	20-447	17-957	79006	8	3-766	19-954	79078	34	15-956	20-723	79150	17	24-094	21-100
78863	9	9-704	16-775	78935	32	20-458	17-814	79007	55	4-075	19-636	79079	10	17-228	20-962	79151	74	24-162	21-245
78864	33	10-766	16-969	78936	14	22-060	17-624	79008	33	5-057	19-365	79080	14	17-456	20-804	79152	10	24-272	21-592
78865	9	11-080	16-749	78937	39	22-374	17-968	79009	16	5-526	19-271	79081	22	18-293	20-548	79153	9	25-459	21-769
78866	39	11-228	16-782	78938	10	22-917	17-664	79010	24	5-666	19-887	79082	21	19-358	20-863	79154	8	25-460	21-018
78867	18	13-100	16-672	78939	13	23-320	17-323	79011	14	5-802	19-808	79083	25	19-714	20-744	79155	37	0-587	22-540
78868	9	13-171	16-172	78940	8	24-841	17-731	79012	8	6-126	19-604	79084	10	20-252	20-875	79156	48	0-982	22-076
78869	21	13-183	16-998	78941	30	24-898	17-360	79013	18	6-420	19-914	79085	9	20-304	20-122	79157	10	1-916	22-652
78870	21	13-408	16-199	78942	60	25-128	17-728	79014	19	6-628	19-889	79086	8	20-400	20-610	79158	19	1-951	22-163
78871	13	14-308	16-578	78943	22	25-185	17-469	79015	8	6-719	19-450	79087	26	20-865	20-260	79159	11	4-122	22-580
78872	10	15-816	16-566	78944	14	25-600	17-507	79016	13	7-242	19-893	79088	8	20-890	20-818	79160	8	4-170	22-190
78873	21	16-797	16-148	78945	33	25-852	17-365	79017	8	7-386	19-178	79089	32	21-103	20-686	79161	8	4-488	22-474
78874	10	17-438	16-221	78946	11	1-857	18-186	79018	11	8-076	19-788	79090	8	21-895	20-779	79162	8	5-164	22-017
78875	9	17-454	16-926	78947	8	1-857	18-823	79019	8	8-403	19-930	79091	9	22-209	20-508	79163	22	5-285	22-046
78876	11	17-716	16-528	78948	18	2-078	18-778	79020	9	8-684	19-966	79092	11	22-700	20-638	79164	32	6-692	22-402
78877	24	18-193	16-751	78949	19	3-312	18-916	79021	13	8-774	19-920	79093	11	22-864	20-774	79165	25	6-874	22-540
78878	47</																		



79176	9	10.682	22 656	79248	20	11.512	23.913	79320	11	18.099	24.780	79456	27	8.720	3.390
79177	11	10.973	22.248	79249	10	11.806	23.132	79321	12	18.260	24.466	79457	9	14.798	3.747
79178	8	11.424	22.760	79250	17	12.698	23.054	79322	8	18.873	24.742	79458	9	15.248	3.601
79179*	62	12.554	22.375	79251	10	12.775	23.492	79323	8	21.056	24.154	79459	34	15.644	3.851
79180	9	12.897	22.456	79252	20	13.162	23.982	79324	9	21.421	24.419	79460	9	17.530	3.276
79181	15	13.138	22.057	79253	12	13.938	23.752	79325	12	23.114	24.654	79461	20	20.232	3.216
79182	19	13.178	22.840	79254	18	14.056	23.577	79326	8	23.508	24.478	79462	25	23.643	3.187
79183	11	13.436	22.848	79255	11	14.150	23.001	79327	13	24.095	24.567	79463*	55	24.880	3.343
79184	18	13.526	22.560	79256	18	14.238	23.522	79328	12	24.684	24.881	79464	18	0.009	4.370
79185	39	13.757	22.027	79257	19	14.520	23.277	79329	8	24.865	24.584	79465	31	0.576	4.529
79186	35	13.837	22.203	79258	9	14.532	23.276	79330	20	25.482	24.469	79466	13	2.035	4.047
79187	24	13.876	22.066	79259	20	14.557	23.434	79331	8	0.318	25.083	79467	31	2.319	4.508
79188	9	13.966	22.612	79260	9	16.820	23.499	79332	13	1.486	25.565	79468	10	2.556	4.569
79189	26	14.113	22.590	79261	37	17.450	23.608	79333	10	2.356	25.156	79469	19	5.154	4.893
79190	8	14.228	22.642	79262*	61	18.302	23.670	79334	8	2.544	25.072	79470	13	9.376	4.590
79191	14	14.386	22.537	79263	17	18.667	23.247	79335	9	2.841	25.706	79471	32	10.166	4.258
79192	19	14.464	22.477	79264	21	19.418	23.317	79336	18	4.188	25.486	79472	9	11.042	4.117
79193	10	14.557	22.080	79265	9	19.558	23.544	79337	28	4.963	25.273	79473	16	13.062	4.403
79194	8	14.970	22.117	79266	23	19.880	23.022	79338	37	5.048	25.567	79474	19	14.614	4.790
79195	13	15.024	22.542	79267	15	20.646	23.319	79339	9	5.300	25.977	79475	11	16.007	4.306
79196	14	15.277	22.763	79268	9	21.378	23.842	79340	46	5.552	25.907	79476	17	16.236	4.943
79197	13	15.514	22.064	79269	22	23.081	23.372	79341	25	5.839	25.628	79477	28	16.782	4.913
79198	10	15.802	22.501	79270	9	23.108	23.522	79342	9	6.055	25.772	79478	34	18.973	4.982
79199	26	17.233	22.136	79271	8	23.118	23.278	79343	46	6.084	25.954	79479	10	19.424	4.638
79200	10	17.563	22.494	79272	16	23.122	23.952	79344	35	6.648	25.652	79480	13	21.232	4.511
79201	8	17.747	22.545	79273	9	23.392	23.908	79345	34	6.877	25.430	79481	27	21.648	4.098
79202	12	18.684	22.686	79274	20	24.028	23.788	79346	22	7.206	25.495	79482	18	24.151	4.159
79203	12	18.934	22.000	79275	22	24.148	23.040	79347	22	7.221	25.341	79483	30	24.954	4.929
79204	20	19.326	22.864	79276	10	24.344	23.774	79348	20	10.320	25.194	79484	24	25.115	4.434
79205	23	19.556	22.556	79277*	88	24.684	23.990	79349	14	10.990	25.664	79485	34	0.314	5.864
79206	27	19.573	22.011	79278	11	0.337	24.246	79350	8	11.232	25.740	79486	19	1.372	5.064
79207	25	20.053	22.933	79279	11	1.882	24.779	79351	22	11.300	25.006	79487	9	1.381	5.630
79208	10	20.096	22.970	79280	20	2.212	24.417	79352	20	11.583	25.285	79488	31	1.446	5.693
79209	9	20.314	22.960	79281	35	2.416	24.110	79353	8	11.864	25.189	79489	14	1.626	5.461
79210	14	20.968	22.768	79282	17	2.486	24.962	79354	20	13.004	25.359	79490	34	3.841	5.495
79211	33	20.972	22.702	79283	8	2.655	24.955	79355	19	13.054	25.596	79491	19	7.360	5.148
79212	10	21.578	22.278	79284	8	2.728	24.957	79356	34	13.578	25.655	79492	30	8.084	5.214
79213	12	21.719	22.284	79285	28	2.766	24.624	79357	16	13.765	25.532	79493	20	8.200	5.966
79214	8	23.183	22.618	79286	13	3.545	24.480	79358	11	14.061	25.830	79494	19	8.313	5.894
79215	8	23.392	22.818	79287	9	4.628	24.288	79359	14	14.168	25.550	79495	32	12.196	5.744
79216	25	23.528	22.136	79288	26	4.898	24.074	79360	45	14.677	25.139	79496	13	17.156	5.443
79217	11	23.946	22.804	79289	26	4.954	24.260	79361	27	16.399	25.886	79497	30	17.422	5.607
79218	38	23.956	22.000	79290	12	6.216	24.102	79362	8	16.477	25.368	79498	13	17.646	5.022
79219	10	24.036	22.634	79291	24	6.412	24.861	79363	14	17.240	25.586	79499	32	18.419	5.024
79220	42	25.798	22.982	79292	24	6.845	24.042	79364	27	17.402	25.853	79500	9	19.430	5.492
79221	13	25.859	22.178	79293	32	7.016	24.758	79365	40	18.148	25.095	79501	10	20.774	5.227
79222	20	0.107	23.769	79294	10	8.323	24.170	79366	11	18.230	25.006	79502	24	22.602	5.708
79223	13	0.411	23.317	79295	8	8.370	24.225	79367	21	18.266	25.069	79503	10	24.862	5.377
79224	23	0.622	23.513	79296*	57	8.584	24.990	79368	20	19.042	25.697	79504	25	1.239	6.543
79225	39	1.341	23.383	79297	17	8.657	24.038	79369	10	19.394	25.482	79505	27	2.856	6.872
79226	9	3.764	23.354	79298*	70	9.902	24.232	79370	14	19.487	25.935	79506	11	5.320	6.832
79227	34	3.929	23.708	79299	23	10.462	24.374	79371	36	21.075	25.120	79507	12	9.316	6.150
79228	20	3.974	23.268	79300	34	10.762	24.146	79372	18	21.668	25.877	79508	11	13.490	6.417
79229*	53	4.330	23.073	79301	9	11.144	24.372	79373	9	22.236	25.872	79509	11	14.621	6.124
79230	12	4.643	23.464	79302	10	11.332	24.770	79374	10	23.552	25.529	79510	21	15.574	6.430
79231	8	5.745	23.751	79303	8	11.743	24.160	79375	14	23.714	25.848	79511	14	15.901	6.132
79232	10	5.856	23.684	79304	9	12.441	24.778	79376	52	24.666	25.920	79512	35	19.800	6.005
79233	12	6.122	23.178	79305	18	13.008	24.157					79513	11	19.874	6.156
79234	12	6.243	23.391	79306	22	13.846	24.286					79514	13	21.185	6.298
79235	14	6.368	23.450	79307	27	14.526	24.368					79515	24	22.888	6.301
79236	10	6.841	23.494	79308	25	15.190	24.388					79516	9	24.226	6.190
79237	24	8.153	23.156	79309	25	16.597	24.635					79517	27	0.406	7.852
79238	25	8.958	23.733	79310	8	16.736	24.460					79518	14	1.540	7.431
79239	9	9.190	23.642	79311	8	16.773	24.114					79519	26	2.306	7.967
79240	15	9.246	23.223	79312	9	17.087	24.334					79520	11	2.926	7.429
79241	10	9.692	23.020	79313	23	17.180	24.146					79521	12	6.000	7.010
79242	11	10.000	23.152	79314	21	17.457	24.678					79522*	63	6.156	7.428
79243	10	10.336	23.852	79315	14	17.638	24.172					79523	14	7.458	7.988
79244	8	10.746	23.242	79316	8	17.730	24.285					79524	13	7.704	7.448
79245	18	10.935	23.238	79317	8	17.816	24.797					79525	12	8.781	7.358
79246	32	10.953	23.622	79318	33	17.865	24.230					79526	24	10.336	7.008
79247	8	11.504	23.748	79319	25	17.937	24.216					79527*	39	10.466	7.040

R.A. 19<sup>h</sup> 24<sup>m</sup>

Plate 1988, 1922 May 23

Provisional Constants.

A B C  
-0.1759 +0.0974 -2942D E F  
-0.0999 -0.1768 -1604

Mag. = 17.1 - 1.05√d

No	d	x	y
79401	38	1.715	0.714
79402	10	4.890	0.162
79403	14	5.081	0.414
79404	13	5.372	0.454
79405	12	9.339	0.908
79406*	34	10.652	0.152
79407	16	14.605	0.934
79408	15	15.544	0.257
79409	12	19.912	0.871
79410	19	21.344	0.643
79411	17	21.534	0.576
79412	22	22.947	0.922
79413	10	23.112	0.870
79414*	27	23.706	0.135
79415	15	23.922	0.946
79416	20	0.057	1.799
79417	22	1.274	1.799
79418	19	1.326	1.639
79419	41	4.648	1.544
79420	8	5.230	1.121
79421	11	6.562	1.244
79422	11	9.262	1.288
79423	26	9.698	1.404
79424	8	12.136	1.871
79425	10	13.902	1.666
79426	12	15.896	1.188
79427	10	15.970	1.088
79428	28	16.709	1.155
79429	11	17.419	1.944
79430	18	19.340	1.020
79431	11	22.794	1.900
79432	21	1.333	2.033
79433*	46	5.311	2.666
79434	13	5.486	2.266
79435	15	13.444	2.688
79436	9	13.524	2.888
79437	15	14.270	2.277
79438	23	14.963	2.799
79439	14	18.258	2.344
79440	31	19.038	2.555
79441	12	19.143	2.555
79442	15	20.454	2.444
79443	12	22.444	2.666
79444	10	22.773	2.222
79445	10	23.468	2.222
79446	12	23.988	2.333
79447	37	0.574	3.000
79448	36	0.792	3.000
79449	13	2.042	3.444
79450	12	2.834	3.888
79451	11	5.134	3.000
79452	15	6.915	3.111
79453	24	7.858	3.999
79454	13	8.207	3.888
79455	25	8.550	3.333







80265	26	17.024	10 911	80337	39	25.940	12.069	80409	9	24.975	14.894	80481	18	5.900	17.518	80553	15	6.801	19.850
80266	10	19.820	10.824	80338	12	1.252	13.068	80410	13	25.916	14.777	80482	10	5.937	17.784	80554	41	7.250	19.664
80267	21	20.900	10.810	80339	12	1.322	13.472	80411	30	1.160	15.858	80483	27	7.142	17.412	80555	10	9.286	19.810
80268	14	24.602	10.282	80340	21	2.478	13.386	80412	14	2.229	15.005	80484	12	7.946	17.341	80556	17	11.765	19.780
80269	35	24.752	10.193	80341	13	4.065	13.040	80413	10	3.838	15.184	80485	44	8.120	17.920	80557	28	12.580	19.250
80270	23	25.770	10.786	80342	11	6.222	13.770	80414	10	4.370	15.304	80486	14	9.110	17.284	80558	11	12.842	19.200
80271	40	1.114	11.311	80343	10	6.650	13.571	80415	13	7.432	15.780	80487	31	9.264	17.706	80559	37	13.854	19.014
80272	10	1.340	11.115	80344	13	6.868	13.554	80416	14	9.266	15.900	80488	28	11.020	17.038	80560	17	15.020	19.100
80273	12	1.850	11.796	80345	10	7.080	13.224	80417	9	11.176	15.155	80489	22	11.990	17.692	80561	10	16.916	19.886
80274	14	2.630	11.362	80346	13	7.260	13.135	80418	10	11.510	15.187	80490	16	13.480	17.680	80562	62	18.376	19.132
80275	21	3.089	11.134	80347	20	9.790	13.746	80419	21	12.204	15.476	80491	26	13.628	17.675	80563	14	19.596	19.395
80276	10	4.240	11.466	80348	35	11.546	13.920	80420	17	12.438	15.663	80492	27	14.416	17.989	80564	10	19.862	19.390
80277	10	6.393	11.855	80349	43	12.067	13.273	80421	40	13.678	15.230	80493	33	14.976	17.126	80565	10	22.060	19.010
80278	14	8.850	11.951	80350	12	12.100	13.177	80422	11	13.828	15.060	80494	39	15.166	17.842	80566	19	23.076	19.348
80279	10	8.934	11.583	80351	9	12.280	13.716	80423	11	13.843	15.630	80495	10	16.468	17.470	80567	8	23.481	19.791
80280	12	9.581	11.050	80352	27	14.101	13.885	80424	36	15.151	15.796	80496	16	16.930	17.070	80568	10	25.122	19.251
80281	19	10.403	11.920	80353	31	14.744	13.590	80425	10	15.716	15.938	80497	10	17.554	17.430	80569	31	25.290	19.360
80282	25	10.580	11.444	80354	12	15.022	13.513	80426	67	18.480	15.194	80498	13	18.325	17.036	80570	20	25.538	19.236
80283	8	11.438	11.302	80355	14	15.671	13.907	80427	16	19.220	15.108	80499	28	18.582	17.332	80571	12	0.905	20.835
80284	14	13.254	11.706	80356	11	16.335	13.020	80428	33	19.552	15.696	80500	19	19.280	17.777	80572	12	4.669	20.724
80285	33	14.760	11.850	80357	12	18.268	13.468	80429	10	19.680	15.092	80501	14	19.490	17.944	80573	17	5.331	20.444
80286	16	15.370	11.312	80358	11	18.364	13.884	80430	10	20.591	15.042	80502	11	19.915	17.046	80574	11	5.709	20.005
80287	10	15.406	11.500	80359	10	19.400	13.760	80431	10	20.646	15.770	80503	24	21.806	17.730	80575	25	5.790	20.200
80288	40	16.920	11.800	80360	25	20.305	13.448	80432	10	20.714	15.588	80504	27	21.923	17.150	80576	14	5.910	20.400
80289	11	18.359	11.368	80361	63	21.060	13.254	80433	14	23.418	15.390	80505	10	22.310	17.945	80577	21	6.166	20.182
80290	17	20.258	11.122	80362	9	21.558	13.534	80434	22	23.542	15.615	80506	27	22.404	17.242	80578	10	6.654	20.573
80291	12	20.564	11.020	80363	10	22.219	13.482	80435	21	24.326	15.550	80507	27	23.194	17.130	80579	11	7.923	20.201
80292	10	20.732	11.464	80364	26	22.466	13.488	80436	29	0.398	16.762	80508	14	23.702	17.466	80580	12	8.590	20.058
80293	13	20.921	11.324	80365	18	23.214	13.909	80437	31	0.812	16.461	80509	35	23.950	17.413	80581	33	8.714	20.382
80294	9	21.415	11.171	80366	61	23.828	13.261	80438	14	1.158	16.015	80510	12	23.984	17.221	80582	12	9.188	20.273
80295	19	21.510	11.220	80367	48	23.941	13.352	80439	16	1.654	16.096	80511	11	24.032	17.338	80583	24	9.514	20.791
80296	10	21.668	11.300	80368	55	24.050	13.550	80440	12	2.228	16.074	80512	25	24.305	17.503	80584	10	9.830	20.000
80297	13	21.990	11.700	80369	22	24.430	13.982	80441	10	4.006	16.755	80513	18	24.794	17.580	80585	44	10.420	20.938
80298	11	22.266	11.730	80370	9	0.262	14.332	80442	30	4.308	16.276	80514	50	24.937	17.090	80586	27	11.516	20.105
80299	40	24.486	11.565	80371	16	1.202	14.560	80443	9	4.596	16.860	80515	14	25.685	17.970	80587	13	11.862	20.700
80300	10	24.900	11.800	80372	43	1.950	14.994	80444	18	4.910	16.310	80516	17	0.830	18.960	80588	10	12.800	20.860
80301	29	25.929	11.540	80373	40	2.278	14.340	80445	10	5.621	16.280	80517	26	1.900	18.250	80589	32	14.646	20.646
80302	11	25.980	11.872	80374	45	3.100	14.675	80446	11	5.650	16.348	80518	10	3.788	18.414	80590	19	15.658	20.335
80303	10	0.040	12.092	80375	8	3.546	14.470	80447	10	5.827	16.835	80519	16	4.540	18.968	80591	10	16.349	20.464
80304	10	0.112	12.300	80376	11	3.563	14.915	80448	10	6.053	16.960	80520	37	4.735	18.227	80592	21	16.436	20.268
80305	17	0.820	12.466	80377	17	3.660	14.544	80449	19	6.245	16.114	80521	14	5.348	18.465	80593	9	16.483	20.436
80306	20	1.161	12.044	80378	12	4.092	14.518	80450	14	6.500	16.478	80522	9	6.072	18.866	80594	10	16.720	20.003
80307	20	1.169	12.466	80379	34	4.848	14.664	80451	42	7.036	16.460	80523	28	6.096	18.604	80595	17	17.170	20.380
80308	10	4.538	12.254	80380	16	5.220	14.790	80452	10	9.565	16.024	80524	14	7.100	18.045	80596	27	17.616	20.357
80309	38	4.560	12.550	80381	17	5.773	14.462	80453	32	9.854	16.386	80525	10	9.355	18.732	80597	24	18.483	20.284
80310	11	4.615	12.209	80382	22	6.778	14.062	80454	11	9.975	16.606	80526	26	11.036	18.806	80598	19	20.804	20.530
80311	15	5.209	12.300	80383	10	7.160	14.890	80455	12	10.223	16.928	80527	40	11.068	18.706	80599	18	20.882	20.480
80312	17	6.450	12.316	80384	13	7.205	14.530	80456	10	10.250	16.402	80528	12	13.122	18.056	80600	14	21.834	20.686
80313	100	6.624	12.512	80385	9	7.270	14.584	80457	19	11.484	16.230	80529	10	14.114	18.566	80601	12	22.182	20.460
80314	9	9.455	12.956	80386	62	7.385	14.198	80458	9	11.680	16.381	80530	11	16.680	18.440	80602	18	22.440	20.776
80315	26	10.852	12.365	80387	19	8.132	14.642	80459	20	11.720	16.358	80531	30	17.606	18.826	80603	10	23.115	20.152
80316	9	12.506	12.845	80388	20	8.374	14.000	80460	14	11.770	16.018	80532	10	18.240	18.380	80604	33	23.512	20.864
80317	48	12.588	12.950	80389	51	12.024	14.060	80461	26	11.996	16.078	80533	89	19.521	18.718	80605	11	23.584	20.146
80318	10	12.588	12.852	80390	13	12.326	14.966	80462	32	16.182	16.988	80534	14	19.810	18.177	80606	37	25.502	20.790
80319	10	13.448	12.758	80391	41	12.360	14.070	80463	13	16.860	16.884	80535	13	20.257	18.802	80607	31	25.882	20.270
80320	15	15.142	12.700	80392	10	13.393	14.234	80464	15	17.518	16.166	80536	66	20.305	18.132	80608	15	1.052	21.400
80321	11	15.637	12.955	80393	22	15.836	14.660	80465	43	17.762	16.920	80537	31	20.368	18.980	80609	26	1.340	21.720
80322	8	15.722	12.300	80394	10	16.202	14.904	80466	10	18.590	16.228	80538	34	21.930	18.220	80610	50	2.473	21.456
80323	13	16.016	12.840	80395	10	18.366	14.018	80467	19	18.794	16.265	80539	18	25.260	18.660	80611	18	2.690	21.308
80324	14	16.098	12.984	80396	20	18.694	14.415	80468	11	18.876	16.071	80540	13	0.300	19.294	80612	19	3.831	21.964
80325	10	16.937	12.990	80397	14	19.365	14.530	80469	30	19.562	16.722	80541	29	1.001	19.220	80613	19	4.057	21.142
80326	12	17.969	12.770	80398	10	20.600	14.372	80470	14	19.752	16.250	80542	15	1.842	19.254	80614			



80625	13	9.330	21.560	80697	10	11.929	23.550	R.A. 19 <sup>h</sup> 40 <sup>m</sup>  Plate 1832; 1921 Oct. 4.  Provisional Constants  A B C - 01735 + 00229 - 2915  D E F - 00207 - 01748 + 0766  Mag.=16.9-1.05√d	80856	10	7.058	2.191	80928	34	8.640	4.118
80626	24	9.596	21.074	80698	31	12.260	23.970		80857	16	7.764	2.448	80929	13	9.300	4.662
80627	32	10.594	21.410	80699	22	12.646	23.590		80858	11	9.722	2.236	80930	9	9.346	4.279
80628	35	11.012	21.538	80700	11	13.411	23.985		80859	10	10.113	2.576	80931	14	9.670	4.124
80629	26	13.785	21.208	80701	30	13.920	23.459		80860	14	10.642	2.426	80932	12	9.800	4.937
80630	10	13.873	21.739	80702	11	17.130	23.028		80861	13	12.922	2.950	80933	12	10.256	4.150
80631	9	15.332	21.912	80703	36	18.087	23.363		80862	13	13.022	2.940	80934	15	10.612	4.664
80632	35	15.409	21.546	80704	10	19.026	23.628		80863	16	13.866	2.510	80935	12	11.114	4.410
80633	15	16.020	21.455	80705	12	19.247	23.590		80864	28	14.020	2.226	80936	10	11.342	4.600
80634	9	16.934	21.356	80706	10	19.445	23.370		80865	12	14.504	2.637	80937	26	11.886	4.798
80635	21	17.338	21.286	80707	13	19.934	23.546	80866*	41	14.754	2.012	80938	10	16.057	4.649	
80636	40	17.397	21.760	80708	34	20.928	23.564	80867	26	15.876	2.748	80939	11	16.068	4.646	
80637	18	18.822	21.187	80709	10	21.060	23.300	80868*	60	16.000	2.496	80940	9	17.542	4.670	
80638	29	20.018	21.434	80710	21	21.268	23.725	80869	16	16.420	2.066	80941	22	17.760	4.168	
80639	10	20.100	21.470	80711	36	21.452	23.500	80870*	41	16.704	2.445	80942	9	18.085	4.327	
80640	32	20.154	21.163	80712	10	22.510	23.135	80871	34	17.735	2.766	80943	29	19.944	4.850	
80641	30	21.052	21.324	80713	21	23.548	23.275	80872	26	19.313	2.244	80944	47	21.562	4.014	
80642	11	21.497	21.232	80714	22	25.182	23.500	80873	18	19.420	2.158	80945	15	22.404	4.212	
80643*	58	23.541	21.724	80715	41	1.731	24.053	80874	32	20.040	2.571	80946	12	22.490	4.548	
80644	31	24.280	21.864	80716	13	3.229	24.000	80875	11	20.336	2.808	80947	24	23.790	4.065	
80645	14	0.612	22.000	80717	23	3.242	24.088	80876	10	20.482	2.706	80948	14	24.140	4.592	
80646	13	0.690	22.056	80718	16	3.428	24.300	80877	21	21.268	2.256	80949	11	0.012	5.955	
80647	10	1.050	22.115	80719	13	4.500	24.214	80878	14	22.108	2.255	80950	26	1.465	5.664	
80648	12	1.672	22.866	80720	10	7.560	24.554	80879	10	25.490	2.318	80951	16	1.654	5.227	
80649	12	4.917	22.431	80721	14	8.144	24.536	80880	10	25.916	2.450	80952	15	1.699	5.000	
80650	9	5.275	22.368	80722	10	8.150	24.551	80881	25	0.014	3.885	80953	10	2.478	5.184	
80651	15	5.988	22.444	80723	10	8.296	24.448	80882	33	0.150	3.156	80954	14	2.662	5.270	
80652	15	6.046	22.084	80724	13	8.842	24.799	80883	29	0.415	3.910	80955	10	2.774	5.169	
80653	11	7.645	22.864	80725	16	8.860	24.279	80884	33	1.136	3.634	80956	16	2.864	5.934	
80654	28	8.838	22.109	80726	8	8.906	24.090	80885	9	3.073	3.376	80957	29	4.338	5.546	
80655	35	9.000	22.914	80727	27	9.860	24.210	80886*	43	3.646	3.198	80958	31	4.555	5.710	
80656	31	9.241	22.240	80728	16	10.564	24.699	80887	16	4.514	3.240	80959*	48	5.664	5.780	
80657	18	9.294	22.300	80729	12	12.840	24.381	80888	15	5.054	3.407	80960	37	5.774	5.816	
80658	15	10.629	22.498	80730	34	13.269	24.360	80889	23	5.316	3.592	80961	9	6.344	5.846	
80659*	56	10.705	22.543	80731	21	14.602	24.260	80890	14	5.335	3.366	80962	32	7.085	5.567	
80660	13	10.850	22.065	80732	10	14.670	24.908	80891	11	6.128	3.085	80963	29	7.148	5.653	
80661	26	11.962	22.400	80733	11	14.710	24.770	80892	27	6.887	3.415	80964	19	7.226	5.163	
80662	26	12.063	22.534	80734	27	15.452	24.848	80893	27	7.307	3.482	80965	26	8.068	5.740	
80663	10	14.720	22.970	80735	10	16.204	24.015	80894	22	8.032	3.592	80966	18	10.006	5.767	
80664	24	15.121	22.430	80736	11	16.795	24.546	80895	10	8.614	3.249	80967	19	10.586	5.401	
80665	14	15.292	22.857	80737	15	17.489	24.516	80896	12	9.548	3.535	80968	28	10.890	5.090	
80666	20	15.460	22.450	80738	11	18.019	24.380	80897	10	9.835	3.816	80969	31	12.218	5.596	
80667	23	17.215	22.230	80739	23	23.430	24.119	80898	13	10.056	3.630	80970	11	13.310	5.780	
80668	29	17.788	22.828	80740	14	23.550	24.354	80899	38	10.085	3.013	80971	12	13.554	5.542	
80669	10	17.831	22.889	80741	21	24.583	24.730	80900	30	10.564	3.190	80972*	45	14.092	5.876	
80670*	47	18.018	22.290	80742	11	1.576	25.220	80901	21	10.727	3.630	80973	27	14.762	5.681	
80671	23	18.618	22.719	80743	38	1.666	25.413	80902	19	10.810	3.920	80974	36	16.782	5.268	
80672	42	18.916	22.439	80744	9	2.780	25.465	80903	33	12.273	3.467	80975	17	18.666	5.160	
80673	13	19.654	22.916	80745	22	3.064	25.328	80904	37	13.390	3.646	80976	26	19.127	5.994	
80674	18	19.690	22.460	80746	20	6.171	25.783	80905	14	14.213	3.470	80977	14	21.008	5.120	
80675	27	20.462	22.266	80747	16	6.980	25.844	80906	23	15.000	3.834	80978	21	21.380	5.558	
80676	29	21.280	22.108	80748	10	7.310	25.115	80907	12	15.242	3.768	80979	10	21.763	5.542	
80677	30	21.691	22.020	80749	25	8.478	25.125	80908	15	17.096	3.759	80980	27	22.440	5.113	
80678	10	21.867	22.720	80750	18	8.921	25.810	80909	40	17.558	3.230	80981	37	23.927	5.220	
80679	49	21.963	22.307	80751	10	9.641	25.791	80910	22	18.322	3.200	80982	21	25.308	5.816	
80680	23	22.436	22.930	80752	63	10.280	25.770	80911	10	19.770	3.650	80983	29	0.486	6.520	
80681	10	23.642	22.873	80753	17	10.554	25.014	80912	30	19.820	3.640	80984	9	2.920	6.218	
80682	47	24.770	22.707	80754	8	11.381	25.970	80913	24	20.145	3.691	80985	11	3.324	6.426	
80683	10	25.206	22.251	80755	20	12.544	25.209	80914	13	20.167	3.166	80986*	40	4.009	6.150	
80684	14	25.600	22.560	80756	14	14.844	25.274	80915	26	21.006	3.395	80987	14	4.512	6.536	
80685	25	25.672	22.575	80757	10	17.340	25.716	80916	17	21.550	3.560	80988	13	5.992	6.104	
80686	10	25.891	22.740	80758	11	17.472	25.510	80917	14	24.506	3.040	80989	19			



81000	17	12.960	6.652	81072	15	13.929	8.042	81144	23	11.223	10.934	81216	33	13.286	12.560	81288	10	23.344	14.567
81001	20	14.298	6.040	81073	10	14.343	8.200	81145	10	11.460	10.848	81217	32	14.180	12.324	81289	10	25.087	14.442
81002	26	14.502	6.910	81074	10	16.846	8.685	81146	13	13.874	10.500	81218	10	15.023	12.740	81290	10	25.133	14.534
81003	15	15.126	6.154	81075	30	17.274	8.512	81147	39	14.422	10.717	81219	11	16.653	12.896	81291	24	0.811	15.221
81004	15	15.174	6.800	81076	16	17.546	8.583	81148	32	15.884	10.274	81220	25	18.980	12.424	81292	18	0.930	15.842
81005	13	15.207	6.390	81077	13	17.608	8.616	81149	45	16.280	10.460	81221*	53	19.172	12.056	81293	10	1.186	15.262
81006	13	15.262	6.385	81078	10	18.886	8.906	81150	19	16.387	10.688	81222	22	19.209	12.540	81294	21	1.840	15.994
81007	10	15.314	6.419	81079	10	20.220	8.004	81151	13	18.490	10.621	81223	15	19.644	12.040	81295	10	2.484	15.334
81008	13	15.766	6.368	81080	35	20.594	8.078	81152	18	19.665	10.287	81224*	53	21.800	12.524	81296	12	3.425	15.210
81009	13	15.910	6.374	81081	33	21.134	8.956	81153	20	19.876	10.233	81225	10	22.646	12.010	81297	31	4.486	15.570
81010	23	16.486	6.458	81082	13	21.448	8.370	81154	29	19.904	10.430	81226*	58	23.160	12.789	81298	10	4.770	15.814
81011	12	17.280	6.280	81083	24	21.540	8.465	81155	23	20.844	10.528	81227	15	23.550	12.160	81299	15	6.680	15.880
81012	13	17.976	6.308	81084	10	21.590	8.341	81156	23	21.152	10.020	81228	38	24.289	12.574	81300	14	7.343	15.796
81013	13	18.944	6.330	81085	20	21.730	8.866	81157	14	21.760	10.837	81229	10	24.777	12.960	81301	38	7.376	15.208
81014	16	20.737	6.380	81086	15	21.799	8.254	81158	30	23.160	10.533	81230	12	25.420	12.385	81302	10	7.407	15.194
81015	29	21.082	6.244	81087	25	22.178	8.044	81159	27	23.774	10.614	81231	15	25.790	12.236	81303	14	7.706	15.835
81016	18	21.284	6.505	81088	12	22.736	8.017	81160	31	24.006	10.163	81232	22	1.108	13.446	81304	18	7.917	15.939
81017	14	21.475	6.723	81089	12	23.088	8.524	81161	17	24.115	10.466	81233*	60	1.321	13.710	81305	10	8.264	15.597
81018	14	23.450	6.366	81090	26	23.865	8.850	81162	36	24.128	10.646	81234	46	1.439	13.800	81306	10	8.508	15.140
81019	30	23.670	6.244	81091	18	24.380	8.296	81163	28	25.014	10.260	81235	52	1.546	13.994	81307	10	8.878	15.512
81020*	47	23.680	6.390	81092	20	24.418	8.910	81164	23	3.250	11.220	81236	14	2.760	13.170	81308	23	9.544	15.670
81021	10	24.156	6.347	81093	10	25.146	8.520	81165	28	3.414	11.970	81237	13	7.316	13.893	81309	11	10.866	15.687
81022	11	24.320	6.600	81094	20	1.234	9.306	81166	14	4.365	11.685	81238	27	8.146	13.484	81310	18	11.778	15.551
81023	13	1.090	7.387	81095	12	1.306	9.641	81167*	48	4.936	11.790	81239*	59	8.552	13.153	81311	23	12.420	15.020
81024	17	1.115	7.970	81096	16	1.999	9.807	81168	14	5.166	11.343	81240*	41	9.515	13.556	81312	12	12.840	15.124
81025	36	1.501	7.416	81097	10	2.936	9.412	81169	11	5.746	11.702	81241	21	11.304	13.304	81313*	47	13.010	15.021
81026	14	2.272	7.723	81098	19	3.462	9.975	81170	14	5.808	11.828	81242	17	11.486	13.192	81314	21	13.014	15.836
81027	14	2.290	7.471	81099	24	3.966	9.390	81171	21	5.968	11.812	81243	11	12.100	13.467	81315	25	13.826	15.036
81028	16	3.576	7.311	81100	26	4.276	9.589	81172	11	6.084	11.440	81244	15	12.173	13.908	81316	12	14.457	15.482
81029	10	3.600	7.983	81101	10	5.850	9.325	81173	30	6.252	11.084	81245	19	14.114	13.055	81317	29	15.278	15.690
81030	10	10.010	7.505	81102	10	7.610	9.230	81174	13	6.874	11.429	81246	29	14.402	13.737	81318	10	15.549	15.667
81031	12	10.890	7.377	81103	18	7.660	9.063	81175	12	7.150	11.344	81247	10	15.230	13.470	81319	22	16.015	15.004
81032	10	11.236	7.884	81104	14	7.680	9.070	81176	10	7.270	11.638	81248	18	16.996	13.092	81320*	86	18.315	15.230
81033	28	12.473	7.902	81105	10	8.432	9.933	81177	13	8.828	11.466	81249	15	17.370	13.485	81321	10	18.656	15.988
81034	12	12.824	7.690	81106	16	8.833	9.170	81178	11	8.871	11.453	81250	11	18.535	13.530	81322	15	18.705	15.783
81035	13	13.415	7.178	81107	40	9.118	9.436	81179	14	10.484	11.715	81251	10	19.216	13.390	81323	28	19.088	15.490
81036	14	14.081	7.500	81108	49	9.280	9.420	81180	37	11.244	11.436	81252	14	21.920	13.064	81324	14	20.716	15.774
81037	25	14.112	7.765	81109	27	9.430	9.004	81181	20	11.296	11.517	81253	26	22.130	13.787	81325	30	20.907	15.926
81038	13	14.714	7.101	81110	26	9.794	9.980	81182	11	11.640	11.774	81254	21	22.174	13.184	81326	28	21.653	15.393
81039	10	15.106	7.519	81111	31	12.084	9.600	81183	14	11.995	11.166	81255	9	24.468	13.768	81327	10	21.670	15.765
81040	13	15.926	7.075	81112	14	12.700	9.416	81184	34	12.324	11.130	81256	30	25.104	13.185	81328	29	22.486	15.024
81041	14	17.883	7.143	81113	10	13.001	9.407	81185	10	13.713	11.749	81257	11	25.716	13.207	81329	46	22.648	15.696
81042	12	19.480	7.626	81114	11	13.005	9.250	81186	24	16.488	11.768	81258	24	25.716	13.539	81330	10	24.588	15.864
81043	30	20.402	7.142	81115	21	14.462	9.973	81187	22	16.497	11.335	81259	16	0.716	14.360	81331	9	24.984	15.569
81044	31	20.515	7.274	81116	17	14.563	9.604	81188	14	17.498	11.322	81260	15	0.930	14.630	81332	16	25.372	15.343
81045	12	20.804	7.405	81117	10	14.618	9.100	81189	10	19.125	11.869	81261	24	1.933	14.425	81333	15	25.746	15.936
81046	29	21.864	7.856	81118	13	14.742	9.918	81190	14	19.627	11.292	81262	24	4.530	14.440	81334	14	25.795	15.472
81047	18	23.330	7.886	81119	12	14.832	9.894	81191	21	22.045	11.286	81263	14	5.003	14.536	81335	22	1.056	16.064
81048	20	0.121	8.090	81120	19	15.363	9.674	81192	19	23.392	11.908	81264	14	5.085	14.256	81336	10	1.405	16.775
81049	27	0.226	8.870	81121	26	18.678	9.710	81193	17	23.532	11.910	81265	11	5.230	14.980	81337	17	2.018	16.508
81050	10	1.162	8.680	81122	9	20.659	9.784	81194	12	24.276	11.378	81266	16	5.416	14.486	81338	10	2.863	16.942
81051	18	1.480	8.968	81123	10	21.240	9.874	81195	29	24.540	11.080	81267	16	5.876	14.502	81339	27	5.763	16.387
81052	32	2.886	8.990	81124	24	22.614	9.628	81196	26	25.550	11.896	81268	30	6.356	14.798	81340	10	6.745	16.852
81053	10	3.846	8.758	81125	14	23.990	9.966	81197	39	1.970	12.006	81269	24	7.273	14.838	81341	27	7.204	16.720
81054	37	4.662	8.344	81126	19	24.204	9.204	81198	11	2.388	12.240	81270	20	9.054	14.737	81342	10	8.810	16.683
81055	14	5.069	8.686	81127	10	24.315	9.635	81199	39	3.426	12.500	81271	10	9.172	14.085	81343	34	8.920	16.778
81056	12	5.162	8.725	81128	32	1.016	10.136	81200	13	3.468	12.306	81272	10	9.814	14.394	81344	10	11.353	16.564
81057	16	5.237	8.740	81129	20	1.619	10.060	81201	24	4.388	12.753	81273	12	11.768	14.280	81345	9	13.923	16.494
81058	11	5.760	8.772	81130	10	1.915	10.254	81202	21	4.664	12.038	81274	11	12.154	14.928	81346	18	14.440	16.031
81059	10	5.920	8.530	81131	15	2.084	10.725	81203	15	6.824	12.200	81275	30	12.910	14.295	81347	23	14.790	16.540
81060	16	7.280	8.864	81132	34	2.228	10.634	81204	36	7.694	12.789	81276	29	13.404	14.783	81348	28	15.416	16.173
81061	11	9.050	8.398	81133	13	3.910	10.509	81205	13	9.840	12.531	81277*	73	14.525	14.575	81349	10	15.796	16.964
81062	17	9.326	8.294	81134	10	4.725	10.03												



81360	27	23.024	16.586	81432	10	12.520	18.280	81504	32	11.763	20.525	81576	21	0.002	23.388	81648	10	9.596	25.356
81361	11	23.235	16.994	81433	16	12.532	18.310	81505	19	15.572	20.822	81577	25	1.116	23.725	81649	18	9.676	25.564
81362	13	23.734	16.846	81434	16	12.749	18.404	81506	30	15.955	20.621	81578	42	2.332	23.148	81650	25	9.830	25.553
81363	14	23.891	16.140	81435	17	13.574	18.662	81507	14	16.063	20.140	81579	23	2.754	23.936	81651	10	12.196	25.476
81364	18	24.095	16.140	81436	11	13.882	18.784	81508	12	16.334	20.698	81580	22	3.237	23.008	81652	10	14.281	25.260
81365	10	24.267	16.940	81437	10	13.920	18.940	81509	48	17.014	20.359	81581	13	3.460	23.170	81653	60	16.855	25.477
81366	15	25.290	16.794	81438	19	14.924	18.732	81510	29	18.426	20.248	81582	18	6.772	23.513	81654	12	17.095	25.446
81367	10	25.912	16.862	81439	9	17.221	18.132	81511	9	18.542	20.792	81583	19	7.352	23.664	81655	25	20.318	25.900
81368	27	0.720	17.580	81440	13	17.230	18.900	81512	29	18.588	20.898	81584	38	7.824	23.838	81656	11	20.592	25.322
81369	13	1.231	17.915	81441	21	17.800	18.442	81513	10	20.586	20.800	81585	10	7.882	23.126	81657	26	20.978	25.544
81370	29	1.478	17.858	81442	15	19.162	18.019	81514	10	20.970	20.026	81586	10	10.066	23.749	81658	15	21.286	25.080
81371	11	1.511	17.668	81443	27	19.320	18.210	81515	48	22.945	20.093	81587	17	10.156	23.523	81659	10	21.696	25.518
81372	14	1.560	17.784	81444	15	19.425	18.650	81516	10	24.762	20.860	81588	11	11.596	23.436	81660	26	22.344	25.427
81373	26	1.831	17.948	81445	10	20.080	18.360	81517	13	25.315	20.390	81589	22	11.952	23.889	81661	35	22.718	25.590
81374	12	2.338	17.100	81446	18	20.086	18.866	81518	13	25.640	20.260	81590	14	15.001	23.450	81662	10	23.353	25.049
81375	10	2.456	17.904	81447	32	20.130	18.792	81519	31	25.892	20.808	81591	25	15.063	23.904	81663	10	24.350	25.399
81376*	47	2.459	17.530	81448	10	20.260	18.630	81520	33	1.062	21.314	81592*	46	16.640	23.237	81664	11	24.582	25.960
81377	15	3.614	17.805	81449	15	21.600	18.004	81521	16	2.442	21.242	81593	14	18.090	23.679	81665	10	25.357	25.034
81378	24	3.660	17.904	81450	26	21.676	18.505	81522	32	3.052	21.224	81594	10	18.260	23.270				
81379*	54	6.626	17.556	81451	30	21.820	18.258	81523	10	3.559	21.711	81595	16	18.707	23.597				
81380	10	6.810	17.360	81452	15	23.044	18.464	81524*	53	4.450	21.330	81596	30	18.972	23.224				
81381	10	7.090	17.679	81453	28	23.215	18.054	81525	23	5.180	21.348	81597	24	22.110	23.660				
81382	10	7.270	17.847	81454	10	25.757	18.516	81526	11	9.446	21.543	81598	10	22.490	23.446				
81383	10	7.486	17.222	81455	12	25.905	18.296	81527	10	10.117	21.066	81599	18	22.622	23.603				
81384	13	7.584	17.190	81456	18	0.618	19.800	81528	11	10.140	21.300	81600	18	23.334	23.515				
81385	10	7.656	17.516	81457	10	2.376	19.250	81529	18	10.408	21.186	81601	18	23.996	23.495				
81386	23	7.662	17.906	81458	14	2.662	19.690	81530	11	11.103	21.405	81602*	60	24.670	23.390				
81387	20	8.280	17.767	81459	18	2.796	19.098	81531	37	13.707	21.282	81603	24	1.006	24.570				
81388	13	9.724	17.842	81460	30	2.830	19.796	81532	10	13.790	21.526	81604	14	1.130	24.803				
81389	25	9.764	17.211	81461	23	3.080	19.674	81533	13	13.936	21.918	81605	24	4.012	24.680				
81390	16	10.348	17.088	81462	39	4.678	19.968	81534*	80	14.140	21.858	81606	13	4.860	24.550				
81391	10	10.784	17.377	81463	13	5.598	19.210	81535	30	14.326	21.806	81607	12	4.882	24.085				
81392	12	10.838	17.616	81464	10	6.313	19.115	81536	10	14.384	21.721	81608	32	6.190	24.043				
81393	39	11.804	17.450	81465	15	6.687	19.281	81537	10	14.605	21.534	81609	15	6.218	24.616				
81394	10	11.850	17.756	81466	12	10.039	19.597	81538	25	16.190	21.582	81610	14	6.364	24.370				
81395	13	12.510	17.058	81467	16	10.654	19.234	81539	36	17.516	21.369	81611*	38	7.404	24.162				
81396	10	12.534	17.794	81468	27	11.626	19.858	81540	19	17.618	21.590	81612	21	7.582	24.332				
81397	15	13.150	17.694	81469	30	12.128	19.490	81541	13	17.696	21.754	81613	17	7.784	24.374				
81398	14	13.844	17.970	81470	14	13.482	19.525	81542	13	18.740	21.050	81614	10	8.976	24.816				
81399	49	15.028	17.866	81471	9	14.162	19.394	81543	33	18.790	21.176	81615	19	9.357	24.352				
81400	25	15.044	17.474	81472	14	15.167	19.343	81544	35	20.340	21.354	81616	13	10.075	24.757				
81401	11	15.330	17.146	81473	10	16.420	19.010	81545	10	20.970	21.054	81617	16	10.420	24.768				
81402	31	15.486	17.882	81474	12	16.818	19.558	81546	27	21.114	21.508	81618	27	12.392	24.302				
81403	10	15.590	17.834	81475	29	18.214	19.821	81547	10	22.700	21.756	81619	10	12.648	24.580				
81404	18	16.458	17.816	81476	29	18.853	19.440	81548	31	22.910	21.932	81620	37	13.765	24.730				
81405	15	16.528	17.200	81477	9	19.128	19.906	81549*	38	24.092	21.988	81621	16	13.930	24.573				
81406	13	17.010	17.971	81478	26	20.420	19.490	81550	24	24.958	21.694	81622	10	14.451	24.757				
81407	14	17.060	17.435	81479	22	21.727	19.404	81551*	48	1.094	22.174	81623	9	14.535	24.530				
81408	26	18.093	17.977	81480	12	22.280	19.824	81552	27	1.840	22.310	81624	11	14.828	24.808				
81409*	47	18.509	17.274	81481	18	23.080	19.784	81553	10	2.633	22.406	81625	18	14.964	24.659				
81410	39	19.976	17.646	81482	35	23.082	19.436	81554	13	2.770	22.690	81626	36	15.580	24.571				
81411	12	20.378	17.984	81483	21	23.579	19.125	81555	15	3.166	22.994	81627	16	15.995	24.570				
81412	14	20.508	17.811	81484	16	23.632	19.481	81556	17	6.822	22.709	81628	11	16.274	24.468				
81413	10	21.330	17.076	81485	16	24.150	19.192	81557	14	7.356	22.016	81629	36	18.024	24.616				
81414	12	21.770	17.927	81486	11	25.114	19.496	81558	18	7.562	22.869	81630	24	19.167	24.378				
81415	28	22.070	17.758	81487	27	25.800	19.146	81559	29	9.255	22.230	81631	25	21.200	24.318				
81416	10	22.500	17.704	81488	13	1.130	20.594	81560	14	11.022	22.425	81632	17	22.469	24.794				
81417	10	22.664	17.662	81489	31	3.429	20.700	81561	10	12.360	22.667	81633	10	22.980	24.780				
81418	12	23.340	17.456	81490	10	3.650	20.884	81562	15	12.360	22.730	81634	10	23.010	24.910				
81419	28	24.058	17.532	81491	28	3.688	20.770	81563	22	12.682	22.494	81635	10	23.435	24.214				
81420	19	2.322	18.018	81492	10	4.060	20.599	81564	14	12.723	22.963	81636	12	25.750	24.383				
81421	18	3.216	18.404	81493	31	4.127	20.480	81565	19	12.778	22.332	81637	21	25.840	24.150				
81422	25	3.774	18.344	81494	22	4.605	20.068	81566	16	14.020	22.348	81638	26	1.504	25.454				
81423	31	4.265	18.123	81495	10	5.010	20.662	81567	36	14.562	22.480	81639	23	2.164	25.174				
81424	15	4.308	18.468	81496	10	6.490	20.596	81568	12	16.080	22.142	81640	28	4.535	25.337				
81425	10	4.664	18.498	81497	10	7.245	20.524	81569	14	17.602	22.344	81641	10	5.478	25.014				
81426	10	6.630	18.460	81498	18	7.255	20.168	81570	40	18.924	22.873	81642	28	5.480	25.975				
81427	20	8.023	18.040	81499	20	7.													







82454	20	10.365	24.860	82510	8	24.506	0.232	82582	8	17.208	6.292	82654	21	6.060	13.003	82726	15	8.055	19.748
82455	21	11.417	24.278	82511	25	0.392	1.511	82583	14	17.374	6.673	82655	8	7.694	13.492	82727	25	10.062	19.416
82456	34	11.980	24.514	82512	14	2.617	1.551	82584	24	20.008	6.888	82656	27	8.760	13.162	82728	27	13.586	19.388
82457	17	12.800	24.714	82513	8	11.036	1.462	82585	12	22.756	6.425	82657	12	11.055	13.684	82729	9	18.887	19.330
82458	10	13.096	24.826	82514	8	12.150	1.582	82586	13	23.005	6.510	82658	8	13.681	13.490	82730	11	19.064	19.222
82459	12	14.074	24.375	82515	24	12.944	1.184	82587	19	23.024	6.990	82659	26	15.339	13.797	82731	64	21.272	19.546
82460	11	14.402	24.065	82516	8	13.990	1.222	82588	8	25.808	6.928	82660	12	20.076	13.760	82732	21	24.527	19.813
82461	44	14.406	24.244	82517	28	15.886	1.310	82589	29	0.748	7.762	82661	13	20.607	13.108	82733	21	24.573	19.146
82462	15	15.064	24.543	82518	9	17.727	1.688	82590	8	4.162	7.032	82662	8	21.107	13.090	82734	17	4.194	20.510
82463	30	15.464	24.134	82519	27	21.978	1.604	82591	13	6.760	7.266	82663	8	21.248	13.912	82735	8	7.722	20.810
82464	15	16.093	24.345	82520	19	21.994	1.935	82592	11	13.672	7.448	82664	11	21.679	13.683	82736	10	7.884	20.126
82465	40	16.344	24.304	82521	40	25.722	1.448	82593	18	14.648	7.007	82665	16	21.960	13.600	82737	19	9.866	20.110
82466	8	21.220	24.716	82522	27	1.038	2.976	82594	11	18.846	7.634	82666	11	23.080	13.892	82738	21	10.192	20.693
82467	13	21.346	24.474	82523	48	8.951	2.407	82595	20	19.162	7.802	82667	27	23.103	13.457	82739	19	10.826	20.078
82468	25	23.548	24.347	82524	9	12.487	2.782	82596	23	20.344	7.127	82668	16	0.575	14.116	82740	22	16.799	20.370
82469	15	24.172	24.951	82525	17	17.343	2.104	82597	17	21.200	7.042	82669	9	1.380	14.238	82741	21	20.358	20.005
82470	30	0.572	25.240	82526	20	17.532	2.933	82598	8	23.614	7.902	82670	13	4.484	14.246	82742	27	21.242	20.222
82471	38	0.948	25.390	82527	28	22.186	2.038	82599	9	4.456	8.972	82671	14	7.975	14.896	82743	14	22.778	20.668
82472	14	2.579	25.163	82528	27	24.524	2.958	82600	10	5.452	8.624	82672	55	8.647	14.198	82744	15	1.188	21.896
82473	19	2.826	25.716	82529	14	24.712	2.864	82601	15	5.895	8.020	82673	10	8.777	14.300	82745	59	10.813	21.338
82474	15	3.526	25.835	82530	9	25.456	2.323	82602	20	6.606	8.615	82674	9	12.552	14.978	82746	21	11.708	21.894
82475	12	4.696	25.216	82531	26	1.887	3.376	82603	12	7.182	8.132	82675	15	18.452	14.689	82747	18	11.892	21.540
82476	16	5.714	25.254	82532	43	3.817	3.330	82604	8	8.404	8.504	82676	14	19.714	14.156	82748	15	12.036	21.763
82477	11	7.028	25.408	82533	14	4.953	3.631	82605	14	14.128	8.027	82677	15	22.876	14.048	82749	11	16.159	21.254
82478	11	7.248	25.035	82534	8	5.374	3.266	82606	15	16.856	8.440	82678	24	24.228	14.636	82750	15	17.640	21.822
82479	10	7.451	25.206	82535	8	10.146	3.704	82607	8	0.799	9.550	82679	18	25.108	14.709	82751	11	18.953	21.532
82480	16	9.602	25.395	82536	16	10.655	3.918	82608	9	2.543	9.368	82680	36	25.734	14.723	82752	9	19.526	21.673
82481	30	10.230	25.612	82537	11	13.440	3.826	82609	10	2.710	9.302	82681	8	1.716	15.120	82753	8	20.464	21.110
82482	13	11.300	25.235	82538	18	16.300	3.523	82610	10	4.568	9.518	82682	8	1.721	15.153	82754	8	25.106	21.664
82483	18	11.974	25.212	82539	12	17.618	3.266	82611	12	6.420	9.227	82683	26	3.334	15.766	82755	25	1.674	22.100
82484	16	13.032	25.295	82540	15	19.369	3.736	82612	19	9.128	9.300	82684	8	5.401	15.587	82756	10	6.438	22.906
82485	19	13.760	25.710	82541	28	25.099	3.094	82613	19	9.740	9.786	82685	12	6.975	15.459	82757	41	10.996	22.437
82486	13	13.884	25.174	82542	11	25.994	3.478	82614	19	13.148	9.687	82686	20	7.976	15.269	82758	11	12.035	22.023
82487	15	14.390	25.736	82543	14	2.915	4.418	82615	8	16.275	9.916	82687	10	10.754	15.862	82759	9	17.214	22.774
82488	11	15.974	25.644	82544	10	3.277	4.429	82616	29	19.406	9.053	82688	12	11.486	15.016	82760	17	20.107	22.073
82489	37	17.521	25.815	82545	10	5.460	4.649	82617	19	19.686	9.484	82689	12	18.112	15.414	82761	34	20.320	22.936
82490	16	17.795	25.417	82546	9	6.160	4.576	82618	18	20.130	9.322	82690	10	22.153	15.674	82762	31	20.342	22.728
82491	35	20.942	25.726	82547	11	7.415	4.358	82619	10	22.324	9.664	82691	49	24.480	15.856	82763	30	20.965	22.196
82492	21	22.400	25.514	82548	21	8.400	4.929	82620	10	1.754	10.510	82692	17	0.406	16.988	82764	11	23.974	22.513
82493	21	23.286	25.140	82549	15	15.316	4.398	82621	9	4.424	10.718	82693	9	2.328	16.520	82765	18	25.615	22.990
82494	12	23.734	25.424	82550	25	16.118	4.207	82622	8	5.455	10.360	82694	19	2.899	16.428	82766	8	1.916	23.820
82495	15	25.044	25.166	82551	14	18.106	4.361	82623	9	10.112	10.529	82695	8	10.510	16.343	82767	15	3.101	23.496
<b>R.A. 19<sup>h</sup> 56<sup>m</sup></b>  Plate 1995 : 1922 May 25.  <i>Provisional Constants</i>  A            B            C - 01754 + 01362 - 2274  D            E            F - 01320 - 01792 + 0049  $Mag.=16.4-1.05\sqrt{d}$				82552	8	21.062	4.822	82624	8	10.448	10.092	82696	9	10.579	16.040	82768	17	4.129	23.104
				82553	11	21.975	4.782	82625	18	12.340	10.357	82697	58	13.752	16.902	82769	19	5.182	23.996
				82554	21	25.499	4.275	82626	11	17.572	10.041	82698	38	21.211	16.816	82770	10	8.365	23.934
				82555	12	0.488	5.040	82627	44	20.730	10.356	82699	14	0.670	17.672	82771	18	10.911	23.174
				82556	11	3.443	5.903	82628	9	20.820	10.360	82700	13	0.685	17.600	82772	31	12.000	23.135
				82557	45	4.794	5.116	82629	10	23.522	10.081	82701	10	4.208	17.657	82773	8	20.078	23.349
				82558	14	5.762	5.807	82630	36	23.693	10.390	82702	19	5.325	17.608	82774	25	21.268	23.286
				82559	27	6.160	5.984	82631	8	24.250	10.238	82703	21	10.764	17.843	82775	14	21.299	23.558
				82560	11	8.514													



R.A. 20<sup>h</sup> 4<sup>m</sup>

Plate 1844; 1921 Oct 24.

Provisional Constants

A

B

C

- 01753 + 00527 + 1055

D

E

F

- 00512 - 01768 - 3438

Mag. = 15.6 - 1.05√d

No	d	u	y
82801	20	1.566	0.154
82802	10	7.367	0.732
82803	10	7.555	0.264
82804	10	17.173	0.530
82805	19	18.147	0.424
82806	16	23.952	0.948
82807	10	24.054	0.451
82808	21	0.136	1.574
82809	19	0.156	1.903
82810	39	3.877	1.400
82811	43	7.205	1.382
82812	26	7.703	1.560
82813	17	9.127	1.002
82814	23	10.266	1.012
82815	17	10.543	1.433
82816	9	14.096	1.790
82817	13	14.518	1.039
82818	11	15.573	1.970
82819	8	17.366	1.886
82820	25	18.114	1.209
82821	39	21.160	1.294
82822	14	21.880	1.598
82823	22	24.535	1.978
82824	23	0.346	2.006
82825	26	2.686	2.916
82826	13	2.877	2.821
82827	32	7.155	2.426
82828	19	8.929	2.950
82829	18	10.493	2.878
82830	8	12.647	2.376
82831	12	13.752	2.508
82832	10	13.984	2.753
82833	26	16.138	2.924
82834	31	18.865	2.501
82835	8	19.059	2.314
82836	26	19.360	2.902
82837	20	20.218	2.767
82838	11	21.570	2.348
82839	44	22.803	2.772
82840	8	23.604	2.815
82841	27	3.265	3.050
82842	16	4.164	3.429
82843	19	4.752	3.893
82844	32	6.945	3.937
82845	9	9.257	3.868
82846	8	9.642	3.742
82847	15	9.836	3.134
82848	27	11.254	3.652
82849	10	16.695	3.950
82850	10	20.162	3.417
82851	9	22.813	3.292
82852	14	24.932	3.050
82853	22	3.667	4.230
82854	20	6.562	4.298
82855	13	8.616	4.904

82856	11	11.427	4.508	82928*	31	13.666	8.633	83000*	32	3.948	14.680	83072	12	1.018	20.636
82857	30	16.353	4.077	82929	10	14.347	8.826	83001	16	7.128	14.602	83073*	38	6.334	20.962
82858	24	18.598	4.458	82930	14	15.574	8.987	83002	9	13.272	14.130	83074	29	11.036	20.834
82859	13	19.168	4.626	82931	8	17.604	8.874	83003	39	15.102	14.793	83075	15	12.112	20.235
82860	8	19.547	4.352	82932	34	18.624	8.331	83004	30	15.722	14.048	83076	8	13.300	20.611
82861	17	21.117	4.386	82933	21	19.258	8.648	83005	13	19.584	14.962	83077	19	15.005	20.608
82862	8	22.511	4.798	82934	13	19.335	8.266	83006	14	20.036	14.320	83078	16	15.218	20.126
82863	14	25.364	4.746	82935	26	19.472	8.226	83007	17	25.256	14.148	83079	30	18.830	20.175
82864	8	1.984	5.350	82936	14	23.086	8.309	83008	11	0.372	15.644	83080	10	22.844	20.816
82865	29	2.824	5.409	82937	11	23.453	8.500	83009	8	2.178	15.174	83081	12	24.553	20.980
82866	16	3.390	5.558	82938	14	24.384	8.200	83010*	43	2.698	15.816	83082	14	5.559	21.606
82867	10	3.454	5.774	82939	11	25.476	8.164	83011	14	6.030	15.177	83083	8	9.110	21.138
82868*	38	3.634	5.692	82940	9	25.544	8.810	83012*	36	9.662	15.634	83084	16	9.713	21.016
82869	11	7.393	5.190	82941	11	0.516	9.632	83013	12	13.018	15.744	83085	8	11.472	21.482
82870	22	7.521	5.807	82942	19	6.803	9.100	83014	14	14.710	15.397	83086	20	11.729	21.872
82871	14	8.414	5.265	82943	10	12.947	9.090	83015	34	16.425	15.425	83087	9	11.770	21.648
82872	12	10.077	5.047	82944	11	14.324	9.520	83016	12	19.236	15.242	83088	31	12.252	21.229
82873	14	11.330	5.716	82945*	38	14.394	9.762	83017	11	23.116	15.646	83089*	40	13.100	21.978
82874	16	12.562	5.246	82946	10	15.130	9.900	83018	19	12.366	16.182	83090	10	20.464	21.154
82875	21	14.768	5.428	82947	20	15.980	9.862	83019	8	15.511	16.898	83091*	45	22.235	21.084
82876	28	17.178	5.758	82948*	33	20.597	9.306	83020*	40	15.755	16.090	83092	20	22.482	21.500
82877	11	17.688	5.564	82949	22	21.715	9.375	83021	21	16.801	16.997	83093	23	23.917	21.167
82878	30	18.017	5.834	82950	27	23.392	9.008	83022	10	17.183	16.180	83094	8	25.598	21.220
82879	9	18.518	5.964	82951	16	24.944	9.733	83023	16	19.391	16.018	83095	11	2.225	22.476
82880	24	23.383	5.724	82952	15	25.802	9.884	83024	11	21.954	16.301	83096	18	3.867	22.946
82881	8	23.616	5.512	82953	9	1.716	10.044	83025	19	24.098	16.730	83097	12	7.090	22.142
82882	10	0.934	6.390	82954*	35	1.886	10.352	83026	9	0.653	17.626	83098	9	8.242	22.940
82883	13	1.186	6.476	82955	9	2.446	10.198	83027	17	1.632	17.570	83099	12	12.518	22.120
82884	17	1.207	6.954	82956*	34	4.595	10.624	83028	14	2.411	17.999	83100	9	15.717	22.560
82885	12	5.516	6.294	82957	10	5.820	10.581	83029	16	8.197	17.525	83101	20	16.795	22.612
82886	10	6.112	6.871	82958	14	11.758	10.910	83030	9	11.243	17.652	83102	11	23.235	22.882
82887	17	6.592	6.775	82959	9	12.188	10.080	83031	10	15.889	17.468	83103	23	24.518	22.356
82888	20	13.142	6.882	82960	12	15.392	10.942	83032	24	17.040	17.120	83104	42	25.731	22.519
82889	18	13.166	6.124	82961	13	16.421	10.020	83033	13	17.948	17.960	83105*	50	3.904	23.770
82890	10	13.640	6.002	82962	28	18.376	10.630	83034	16	19.768	17.438	83106	16	7.046	23.608
82891	12	13.918	6.462	82963	26	18.530	10.050	83035	13	25.979	17.440	83107	14	7.147	23.785
82892	8	14.576	6.412	82964	23	20.964	10.532	83036	10	0.386	18.677	83108	18	7.333	23.698
82893	10	14.896	6.554	82965	30	24.463	10.610	83037	9	0.957	18.895	83109	22	11.713	23.714
82894	8	16.324	6.400	82966	16	0.420	11.130	83038	15	2.894	18.035	83110	14	15.426	23.201
82895*	38	17.793	6.606	82967	27	4.566	11.906	83039	21	2.901	18.245	83111	24	17.776	23.194
82896*	42	18.410	6.782	82968	11	4.986	11.495	83040	15	6.146	18.848	83112	28	18.575	23.560
82897	14	18.906	6.558	82969	20	7.586	11.672	83041	26	6.866	18.754	83113	25	21.994	23.032
82898	13	21.585	6.521	82970*	66	12.148	11.006	83042	9	8.938	18.064	83114	11	23.385	23.180
82899	23	22.056	6.743	82971	17	14.776	11.264	83043	15	10.454	18.556	83115	14	1.348	24.416
82900	20	22.098	6.598	82972	15	16.202	11.807	83044	19	13.694	18.585	83116	9	4.894	24.404
82901*	22	24.268	6.704	82973	17	17.909	11.441	83045	19	14.077	18.265	83117	11	6.986	24.747
82902*	31	24.305	6.523	82974	8	18.046	11.026	83046	8	16.118	18.870	83118	15	12.678	24.274
82903*	38	24.932	6.944	82975	10	19.712	11.440	83047	10	18.550	18.520	83119	16	13.114	24.296
82904	9	1.800	7.864	82976	9	24.160	11.624	83048	16	19.186	18.502	83120	19	15.357	24.134
82905	12	4.616	7.002	82977	13	4.643	12.556	83049	8	20.128	18.770	83121	9	15.707	24.872
82906	15	9.000	7.130	82978	9	12.506	12.566	83050	31	20.444	18.797	83122	13	15.920	24.915
82907	17	12.617	7.388	82979	8	12.656	12.026	83051	11	20.892	18.507	83123	9	0.108	25.488
82908	16	16.124	7.407	82980	12	16.182	12.202	83052	14	21.264	18.492	83124	23	15.987	25.879
82909*	48	16.668	7.172	82981	11	16.964	12.542	83053	8	22.182	18.398	83125	12	16.690	25.588
82910	10	18.707	7.666	82982	30	17.328	12.406	83054	23	23.022	18.799	83126	8	18.123	25.632
82911	26	19.383	7.042	82983	13	18.544	12.368	83055	19	2.765	19.774	83127	13	22.165	25.933
82912	8	22.202	7.755	82984	31	19.633	12.668	83056	18	2.806	19.106				
82913	29	22.203	7.872	82985	10	20.466	12.170	83057	28	8.672	19.045				
82914	12	23.425	7.500	82986	19	24.300	12.964	83058	21	10.100	19.436				
82915	15	23.774	7.745	82987	13	0.170	13.570	83059	15	10.116	19.986				
82916	8	2.576	8.896	82988	12	1.292	13.857	83060	11	10.124	19.996				
82917	11	4.296	8.643	82989	25	1.313	13.422	83061	24	11.028	19.530				
82918	15	6.067	8.836	82990*	51	6.893	13.836	83062	8	12.684	19.850				
82919	11	6.430	8.586	82991	26	9.405	13.828	83063	31	13.870	19.018				
82920	17	7.583	8.788	82992	2										



R.A. 20<sup>h</sup> 12<sup>m</sup>

Plate 1827; 1921 Oct. 1.

Provsional Constants.

A B C

—01728 +01332 —2764

D E F

—01320 —01753 +0910

Mag.=16.8—1.05√*d*

No.	<i>d</i>	<i>x</i>	<i>y</i>	83151	21	1.524	0.978	83152	48	3.714	0.412	83153	16	9.891	0.400	83154	10	10.180	0.767	83155	22	10.788	0.172	83156	28	13.505	0.902	83157	13	14.696	0.938	83158*	55	14.732	0.959	83159	16	16.852	0.972	83160	24	18.540	0.203	83161*	80	19.966	0.360	83162	42	20.178	0.368	83163	14	20.552	0.700	83164*	58	21.284	0.306	83165	15	21.910	0.188	83166	31	22.120	0.796	83167	17	25.290	0.110	83168	15	25.988	0.380	83169	14	0.295	1.592	83170	14	1.206	1.564	83171	32	1.433	1.475	83172	35	4.271	1.270	83173	19	6.291	1.725	83174	20	6.560	1.639	83175	16	7.370	1.895	83176	20	7.494	1.204	83177	28	8.128	1.051	83178	31	8.390	1.354	83179	21	8.684	1.199	83180	42	8.706	1.510	83181	40	10.448	1.230	83182	11	11.866	1.186	83183	14	14.312	1.358	83184	31	14.632	1.782	83185	10	15.666	1.332	83186	31	16.044	1.986	83187	27	16.050	1.988	83188	36	16.267	1.357	83189	31	19.760	1.542	83190	31	22.328	1.014	83191	14	22.570	1.540	83192	20	23.180	1.582	83193	19	24.693	1.434	83194	68	25.465	1.948	83195	11	0.732	2.475	83196	40	2.036	2.492	83197	10	3.278	2.308	83198	13	9.042	2.775	83199	13	9.854	2.340	83200	13	11.641	2.984	83201*	45	12.530	2.031	83202	14	12.585	2.294	83203	12	15.682	2.658	83204	22	17.452	2.272	83205	30	17.768	2.755	83206	12	17.870	2.314	83207	18	20.110	2.759	83208	11	20.989	2.989	83209	26	22.770	2.841	83210	43	25.829	2.971	83211	11	0.292	3.344	83212*	60	0.314	3.324	83213	17	0.342	3.841	83214	18	1.124	3.352	83215	27	2.455	3.557	83216	12	3.791	3.866	83217	25	8.301	3.570	83218	26	11.112	3.111	83219	20	12.898	3.039	83220	17	14.620	3.254	83221	12	14.688	3.958	83222	15	15.100	3.750	83223	30	15.245	3.074	83224	23	17.148	3.167	83225*	63	17.419	3.501	83226	20	17.544	3.490	83227	42	17.550	3.176	83228	29	18.023	3.390	83229*	54	18.394	3.484	83230	21	18.470	3.050	83231	10	18.503	3.170	83232	28	19.498	3.081	83233	30	22.425	3.778	83234	13	22.430	3.718	83235	13	1.751	4.754	83236	23	2.896	4.743	83237	11	3.714	4.858	83238*	44	5.004	4.472	83239	28	5.560	4.523	83240	10	6.844	4.684	83241*	78	8.292	4.839	83242*	62	11.069	4.090	83243	13	13.374	4.624	83244	13	16.524	4.847	83245	35	16.850	4.212	83246	12	18.800	4.192	83247*	54	19.954	4.130	83248	23	21.372	4.932	83249	25	21.679	4.895	83250	15	23.255	4.045	83251	25	23.420	4.170	83252	19	24.238	4.570	83253	16	0.071	5.355	83254	13	2.382	5.748	83255	25	2.922	5.245	83256	15	4.376	5.204	83257	12	7.496	5.330	83258*	56	8.996	5.612	83259	30	10.710	5.930	83260	22	10.809	5.418	83261	36	11.720	5.538	83262	43	11.910	5.307	83263	11	13.657	5.894	83264	21	13.916	5.094	83265	23	15.224	5.766	83266	13	15.534	5.392	83267	15	16.575	5.652	83268	22	16.580	5.171	83269	10	18.204	5.187	83270	20	19.790	5.929	83271	18	21.762	5.524	83272	20	22.046	5.906	83273	22	23.638	5.813	83274	19	24.030	5.204	83275	40	24.608	5.382	83276	34	0.960	6.264	83277	12	1.154	6.665	83278	20	1.190	6.046	83279	11	3.768	6.904	83280	19	5.325	6.242	83281	21	6.588	6.688	83282	20	9.246	6.510	83283*	39	9.373	6.688	83284	20	10.826	6.286	83285	13	12.635	6.190	83286	14	13.282	6.728	83287	16	16.360	6.860	83288	15	17.987	6.898	83289	9	18.178	6.738	83290	13	19.258	6.164	83291	19	20.170	6.142	83292	19	20.647	6.744	83293	15	22.460	6.686	83294	40	23.190	6.455	83295	41	25.090	6.941	83296	18	25.266	6.532	83297*	32	1.865	7.225	83298*	43	1.896	7.044	83299	14	2.358	7.632	83300	13	2.445	7.750	83301*	53	2.528	7.454	83302	12	2.974	7.324	83303	10	3.500	7.117	83304	31	4.310	7.954	83305	19	4.496	7.546	83306	22	4.798	7.444	83307	19	5.682	7.470	83308	12	6.570	7.692	83309	17	6.700	7.441	83310	15	12.380	7.972	83311	12	14.122	7.942	83312	12	14.128	7.268	83313	10	15.582	7.840	83314	35	17.622	7.081	83315*	58	19.000	7.586	83316	16	20.697	7.668	83317	14	21.874	7.230	83318	18	24.492	7.536	83319	18	24.530	7.180	83320	31	25.114	7.324	83321	40	25.156	7.227	83322*	44	25.213	7.232	83323	10	25.538	7.348	83324	11	25.760	7.314	83325	18	0.714	8.855	83326	18	1.038	8.040	83327	26	1.390	8.276	83328	21	2.010	8.720	83329	24	3.100	8.660	83330	12	4.720	8.014	83331	14	6.746	8.028	83332	16	6.858	8.270	83333	12	7.878	8.064	83334	12	8.411	8.440	83335	35	8.642	8.568	83336	17	9.050	8.107	83337	35	9.800	8.395	83338	21	10.681	8.466	83339	29	14.514	8.560	83340	14	14.976	8.361	83341	16	15.960	8.217	83342	14	18.009	8.778	83343	20	18.448	8.088	83344	13	18.552	8.384	83345	19	19.362	8.604	83346	26	19.568	8.380	83347	17	19.641	8.190	83348	37	19.842	8.068	83349	21	20.204	8.916	83350	34	22.153	8.452	83351	11	22.590	8.809	83352	21	24.556	8.034	83353	40	25.377	8.062	83354	40	1.032	9.547	83355	17	1.086	9.037	83356	9	1.334	9.764	83357	12	1.682	9.078	83358	17	3.182	9.304	83359	14	4.690	9.214	83360	26	6.376	9.842	83361	17	6.490	9.942	83362	38	7.562	9.766	83363	9	8.183	9.390	83364	19	10.955	9.610	83365	36	11.517	9.360	83366	12	13.562	9.544	83367	13	14.039	9.322	83368	13	15.374	9.550	83369	31	18.104	9.661	83370	32	19.020	9.910	83371	40	19.960	9.580	83372	26	20.622	9.108	83373	20	21.134	9.949	83374	16	23.140	9.759	83375	28	23.359	9.025	83376	18	23.674	9.294	83377	19	23.897	9.898	83378	36	25.720	9.294	83379	13	1.050	10.393	83380	19	1.582	10.570	83381	27	2.601	10.240	83382	27	3.462	10.374	83383	12	5.520	10.244	83384*	60	5.911	10.430	83385	30	7.640	10.982	83386	13	7.690	10.387	83387	28	8.338	10.958	83388	14	8.544	10.190	83389	19	10.574	10.056	83390	12	12.878	10.946	83391	30	16.054	10.734	83392	23	16.518	10.152	83393	19	16.783	10.701	83394	12	16.890	10.114	83395	14	17.086	10.232	83396	31	17.531	10.734	83397	19	18.548	10.284	83398	44	20.052	10.862	83399	40	21.410	10.394	83400	35	22.642	10.024	83401	15	23.965	10.898	83402	37	2.136	11.128	83403	16	3.910	11.496	83404	13	6.402	11.502	83405	9	8.034	11.024	83406	12	8.330	11.507	83407	10	9.454	11.273	83408	19	10.816	11.630	83409	20	10.882	11.292	83410	14	11.273	11.426	83411	14	12.129	11.640	83412	10	13.436	11.402	83413	10	13.600	11.756	83414	14	14.756	11.794	83415	20	16.150	11.068	83416	11	17.940	11.178	83417	35	20.130	11.480	83418	35	20.252	11.668	83419	13	21.055	11.038	83420	20	21.494	11.712	83421	21	24.446	11.030	83422	23	24.538	11.842	83423	11	0.724	12.184	83424	20	1.856	12.148	83425	12	2.041	12.364	83426	17	4.190	12.418	83427	15	4.226	12.224	83428	15	5.288	12.602	83429	11	6.606	12.480	83430	19	7.158	12.716	83431	32	7.197	12.370	83432	14	8.785	12.306	83433	14	8.900	12.352	83434	11	9.942	12.856	83435	11	10.294	12.736	83436	10	10.934	12.890	83437	11	13.666	12.320	83438	12	14.930	12.340	83439	12	15.480	12.918	83440	18	18.048	12.576	83441	12	18.728	12.516	83442	14	24.700	12.640	83443	30	2.020	13.484	83444	11	5.372	13.320	83445	18	5.920	13.122	83446	18	6.555	13.818	83447	13	6.650	13.466	83448	14	15.570	13.566	83449	20	16.212	13.776	83450	31	16.676	13.184	83451	17	16.745	13.808	83452	35	16.830	13.705	83453	12	17.418	13.562	83454	25	18.030	13.913	83455	13	19.618	13.374	83456	21	21.400	13.781	83457	26	21.590	13.920	83458	44	22.896	13.204	83459	14	23.270	13.462	83460	23	23.290	13.900	83461	22	25.330	13.278	83462	20	0.326	14.126	83463	15	0.656	14.942	83464	21	3.004	14.648	83465*	51	4.515	14.096	83466	20	6.830	14.013	83467	16	7.306	14.220	83468	17	9.418	14.855	83469	17	10.544	14.732	83470	31	11.318	14.396	83471	11	12.274	14.260	83472	16	14.123	14.200	834
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83494	11	19°046	15°874	83566	13	17°796	19°164	83638	20	14°094	22°366	<div>R.A. 20<sup>h</sup> 20<sup>m</sup></div> <div>Plate 1850 ; 1921 Oct. 29.</div> <div>Provisional Constants.</div> <div>A            B            C</div> <div>—01725 +01019 —3896</div> <div>D            E            F</div> <div>—00984 —01758 —2889</div> <div>Mag.=16.6—1.05√d</div>	83756	11	3°094	3°700
83495	12	21°102	15°856	83567	20	20°410	19°128	83639	20	15°452	22°346		83757	25	3°815	3°726
83496	32	21°600	15°824	83568	31	22°575	19°695	83640	38	16°334	22°892		83758	21	4°430	3°976
83497	20	21°976	15°394	83569	22	23°982	19°830	83641	12	16°592	22°554		83759	13	5°974	3°990
83498	17	23°760	15°172	83570*	40	0°805	20°334	83642	11	16°769	22°983		83760	41	6°388	3°076
83499	35	25°402	15°840	83571	11	0°956	20°296	83643	19	16°910	22°435		83761*	48	6°906	3°345
83500	18	0°895	16°189	83572	27	1°185	20°425	83644	15	18°808	22°130		83762	19	7°454	3°166
83501	13	2°780	16°204	83573	14	3°160	20°782	83645	15	20°002	22°260		83763	18	7°946	3°706
83502	18	3°919	16°972	83574	35	5°830	20°463	83646	32	23°303	22°066		83764	12	8°058	3°090
83503	20	3°957	16°180	83575	15	6°460	20°226	83647	18	1°164	23°422		83765	15	8°126	3°578
83504	20	5°985	16°892	83576	36	6°645	20°626	83648	19	1°318	23°717	83766	10	8°290	3°730	
83505	20	6°028	16°272	83577	30	7°864	20°705	83649*	53	3°646	23°010	83767	12	9°736	3°026	
83506	20	8°652	16°326	83578	14	8°000	20°370	83650	11	4°476	23°438	83768	9	11°862	3°274	
83507	26	12°731	16°286	83579	40	8°693	20°190	83651	15	6°410	23°018	83769	8	12°610	3°508	
83508	37	14°562	16°645	83580	30	9°603	20°830	83652	25	6°888	23°808	83770	15	12°736	3°004	
83509	24	18°850	16°102	83581*	40	10°726	20°102	83653	24	8°158	23°570	83771	9	13°586	3°682	
83510	20	19°949	16°990	83582	11	13°770	20°788	83654	20	9°014	23°844	83772	10	15°856	3°596	
83511	33	22°040	16°827	83583	40	14°638	20°248	83655	13	10°038	23°135	83773	21	16°641	3°724	
83512	9	22°106	16°766	83584	25	16°110	20°440	83656	15	12°450	23°164	83774	14	21°564	3°010	
83513	20	22°692	16°175	83585	15	16°476	20°546	83657	14	13°856	23°592	83775	12	25°336	3°406	
83514	20	23°332	16°240	83586	14	17°886	20°890	83658	15	14°783	23°914	83776	10	25°363	3°535	
83515	10	23°340	16°251	83587	20	18°610	20°790	83659	44	16°246	23°985	83777	49	25°627	3°492	
83516	21	24°730	16°933	83588	14	19°488	20°344	83660	42	17°622	23°832	83778	22	1°170	4°094	
83517	25	25°462	16°740	83589	25	19°900	20°640	83661*	41	18°583	23°150	83779	19	1°994	4°486	
83518	26	1°897	17°254	83590	15	21°090	20°830	83662	24	18°730	23°635	83780	16	2°588	4°786	
83519	22	3°796	17°924	83591	15	22°177	20°765	83663	14	19°694	23°186	83781	19	4°266	4°556	
83520	40	4°643	17°510	83592	31	23°070	20°660	83664	15	20°002	23°206	83782	19	4°536	4°459	
83521	27	6°670	17°736	83593	12	23°317	20°571	83665	14	21°970	23°529	83783	23	6°376	4°621	
83522	11	7°306	17°754	83594	27	25°253	20°858	83666	38	23°434	23°558	83784	22	6°964	4°398	
83523	16	8°585	17°506	83595	61	0°120	21°646	83667*	52	23°592	23°258	83785*	38	7°706	4°774	
83524	31	12°388	17°627	83596	17	0°728	21°364	83668	12	23°672	23°626	83786	21	8°297	4°804	
83525	12	12°790	17°520	83597	38	1°807	21°695	83669	45	23°750	23°443	83787	26	9°116	4°126	
83526	25	16°374	17°848	83598	21	2°440	21°495	83670	18	5°788	24°096	83788	10	9°362	4°908	
83527	16	20°422	17°238	83599	17	3°490	21°712	83671	13	6°022	24°514	83789*	42	10°146	4°548	
83528	12	21°464	17°460	83600	18	6°036	21°412	83672	11	7°357	24°580	83790	15	10°204	4°334	
83529	15	21°738	17°792	83601*	52	6°367	21°846	83673	18	7°817	24°726	83791	16	10°522	4°254	
83530	20	23°375	17°375	83602	10	6°424	21°445	83674	10	8°280	24°640	83792	14	11°285	4°675	
83531	15	24°176	17°568	83603	18	6°740	21°950	83675	17	8°648	24°654	83793	12	11°467	4°614	
83532	15	2°670	18°192	83604	40	7°669	21°120	83676	15	10°203	24°106	83794	12	12°062	4°887	
83533*	42	4°138	18°625	83605	10	9°446	21°334	83677	23	11°320	24°345	83795	22	12°412	4°276	
83534	23	4°152	18°616	83606	22	10°314	21°076	83678	13	12°664	24°963	83796	13	13°589	4°064	
83535	15	4°697	18°669	83607	9	12°758	21°550	83679	10	15°310	24°082	83797	10	13°810	4°143	
83536	12	6°570	18°530	83608	19	14°439	21°644	83680	10	19°134	24°386	83798	16	13°865	4°926	
83537	16	10°472	18°336	83609	13	15°189	21°808	83681	21	19°310	24°418	83799	9	15°024	4°196	
83538	14	10°752	18°928	83610	20	15°242	21°574	83682	16	19°945	24°706	83800	14	15°028	4°876	
83539*	37	10°976	18°786	83611	18	15°430	21°472	83683	33	20°665	24°160	83801	25	15°514	4°652	
83540	22	11°708	18°166	83612	17	16°272	21°402	83684	28	21°766	24°224	83802	11	18°618	4°321	
83541	17	16°076	18°480	83613	38	17°028	21°984	83685	9	0°190	25°640	83803	16	18°664	4°644	
83542*	56	16°819	18°358	83614	10	17°573	21°758	83686	12	7°450	25°215	83804	21	20°359	4°718	
83543	12	18°164	18°681	83615	20	18°638	21°745	83687	45	8°580	25°888	83805	14	20°896	4°392	
83544	40	18°421	18°702	83616	14	19°046	21°088	83688	18	8°923	25°544	83806	11	22°300	4°908	
83545	13	19°782	18°851	83617	15	19°266	21°748	83689	15	11°794	25°640	83807	17	23°509	4°234	
83546	13	20°065	18°536	83618	15	19°959	21°884	83690	15	12°426	25°692	83808	14	24°650	4°644	
83547	11	22°486	18°398	83619	44	20°180	21°486	83691	24	13°062	25°713	83809	13	25°114	4°187	
83548	29	22°945	18°720	83620	40	22°688	21°561	83692	86	13°253	25°894	83810	11	25°306	4°072	
83549	17	24°062	18°792	83621*	73	22°956	21°242	83693	28	15°484	25°488	83811	8	0°640	5°350	
83550	20	25°238	18°260	83622	11	25°090	21°250	83694	18	16°456	25°026	83812	21	1°400	5°734	
83551	29	0°865	19°345	83623	12	25°230	21°852	83695	13	16°630	25°880	83813	22	1°790	5°120	
83552	42	2°265	19°985	83624	31	0°380	22°057	83696	38	20°468	25°010	83814	38	2°366	5°296	
83553	20	3°310	19°746	83625	12	2°184	22°836	83697	38	22°095	25°929	83815	14	4°599	5°303	
83554	10	4°070	19°524													



83828	13	23.149	5 272	83900	16	19.316	8.252	83972	14	15.338	11.690	84044	9	8.070	16.284	84116	12	3.736	19.574
83829	23	23.466	5.414	83901*	46	19.532	8.670	83973	15	17.819	11.168	84045	16	9.174	16.448	84117	15	3.884	19.605
83830	21	25.952	5.880	83902	15	20.354	8.085	83974	13	19.010	11.704	84046	24	10.554	16.808	84118	14	4.696	19.588
83831	14	25.954	5.405	83903	14	20.464	8.078	83975*	58	19.867	11.256	84047	15	10.678	16.964	84119	13	5.826	19.244
83832	14	0.234	6.618	83904	19	20.966	8.856	83976	26	21.838	11.966	84048	25	10.730	16.126	84120	9	6.203	19.850
83833	11	0.944	6.086	83905	21	21.335	8.806	83977	12	2.268	12.566	84049	21	11.034	16.812	84121	16	7.282	19.455
83834	33	0.957	6.380	83906	18	21.600	8.726	83978	12	2.526	12.550	84050	12	11.481	16.694	84122	18	8.302	19.743
83835	37	2.864	6.848	83907	21	23.115	8.558	83979	10	3.838	12.298	84051	12	12.910	16.865	84123	14	8.442	19.129
83836	15	3.038	6.438	83908	18	23.262	8.942	83980	39	4.983	12.252	84052	18	13.152	16.435	84124	16	10.040	19.061
83837	15	4.504	6.974	83909	22	23.868	8.391	83981	14	5.500	12.175	84053	15	13.328	16.155	84125	17	10.226	19.697
83838	22	6.312	6.971	83910	19	23.988	8.548	83982	17	6.340	12.394	84054	9	14.816	16.104	84126	12	10.753	19.786
83839	12	7.034	6.160	83911	10	24.039	8.120	83983	14	6.641	12.558	84055	13	15.045	16.906	84127	16	13.576	19.667
83840	13	7.104	6.494	83912	36	24.150	8.649	83984	32	7.380	12.008	84056	18	16.770	16.824	84128	17	13.920	19.585
83841	22	8.468	6.104	83913	17	25.286	8.623	83985	34	10.286	12.062	84057	22	17.468	16.874	84129	19	14.518	19.442
83842	13	8.468	6.009	83914	27	0.444	9.956	83986	11	13.290	12.523	84058	17	19.034	16.476	84130	10	14.985	19.350
83843	8	9.960	6.606	83915	15	0.940	9.684	83987	9	14.370	12.682	84059	30	20.136	16.074	84131	14	15.810	19.282
83844	18	10.663	6.200	83916	16	1.470	9.214	83988	13	16.309	12.536	84060	28	22.355	16.299	84132	18	16.599	19.625
83845	14	11.130	6.795	83917	16	1.700	9.815	83989	15	16.450	12.060	84061	12	25.986	16.450	84133	20	16.824	19.509
83846	17	12.574	6.068	83918	26	3.516	9.198	83990	22	20.034	12.586	84062	18	1.248	17.298	84134	9	17.775	19.710
83847	9	12.785	6.424	83919	21	3.930	9.474	83991	13	22.826	12.931	84063	13	2.050	17.484	84135	22	17.888	19.969
83848	12	13.146	6.874	83920	10	4.528	9.269	83992	21	23.554	12.324	84064	10	3.652	17.595	84136	28	18.516	19.554
83849	16	14.756	6.496	83921	9	4.550	9.370	83993	22	24.530	12.466	84065	13	4.776	17.876	84137	15	19.318	19.644
83850	12	16.419	6.195	83922	11	5.468	9.796	83994	23	24.766	12.334	84066	18	7.900	17.734	84138	22	21.654	19.566
83851	15	18.564	6.995	83923	18	12.208	9.890	83995	13	25.736	12.448	84067	11	9.925	17.265	84139	24	21.734	19.206
83852	15	19.194	6.416	83924	38	12.240	9.486	83996	70	25.964	12.806	84068	13	10.100	17.994	84140	17	24.138	19.018
83853	20	19.409	6.610	83925	22	12.752	9.614	83997	37	0.726	13.132	84069	18	10.935	17.274	84141*	39	24.180	19.256
83854	14	21.372	6.945	83926	40	13.202	9.816	83998	10	1.104	13.386	84070	15	11.300	17.621	84142	19	24.786	19.682
83855	21	24.146	6.536	83927	16	14.612	9.695	83999	18	1.126	13.824	84071	12	13.192	17.990	84143	10	0.084	20.700
83856	17	2.273	7.448	83928	14	15.264	9.620	84000	21	3.165	13.184	84072	11	14.550	17.154	84144	24	0.974	20.585
83857	16	2.306	7.094	83929	8	15.539	9.446	84001	11	3.885	13.950	84073	19	15.314	17.716	84145	13	1.219	20.495
83858	20	2.341	7.946	83930	10	15.750	9.464	84002	9	8.704	13.624	84074	12	15.428	17.586	84146	23	3.158	20.764
83859	23	2.890	7.234	83931	32	15.917	9.036	84003	28	10.345	13.664	84075	32	17.862	17.424	84147*	57	6.312	20.324
83860	37	2.933	7.135	83932	26	15.948	9.440	84004	39	11.438	13.839	84076	32	18.465	17.186	84148	11	6.556	20.768
83861	36	2.990	7.139	83933	14	16.458	9.735	84005*	62	15.394	13.951	84077	13	19.187	17.264	84149	23	7.228	20.204
83862	38	3.160	7.966	83934	30	16.865	9.462	84006	19	17.458	13.223	84078	21	19.430	17.496	84150	13	14.149	20.145
83863	12	3.316	7.254	83935	8	17.453	9.265	84007	16	17.822	13.644	84079*	50	20.031	17.722	84151	13	14.422	20.124
83864	14	3.540	7.216	83936	18	18.016	9.006	84008	21	20.930	13.274	84080	12	21.474	17.115	84152	15	17.856	20.106
83865	15	3.796	7.405	83937	20	18.654	9.417	84009	9	21.186	13.244	84081	9	21.724	17.046	84153	14	18.326	20.353
83866	19	6.814	7.881	83938	13	21.136	9.650	84010	40	22.632	13.202	84082*	41	22.988	17.706	84154	16	18.716	20.558
83867	36	7.134	7.173	83939	8	22.156	9.316	84011	15	25.100	13.220	84083	19	24.237	17.806	84155	13	18.816	20.863
83868	21	8.544	7.229	83940	13	25.334	9.960	84012	16	1.314	14.500	84084	22	0.829	18.648	84156	19	20.774	20.146
83869	15	9.192	7.894	83941	15	25.666	9.346	84013	14	2.344	14.736	84085	14	1.948	18.708	84157	10	21.569	20.381
83870	14	10.874	7.186	83942	10	1.776	10.816	84014*	52	4.930	14.406	84086	9	2.355	18.506	84158	10	22.312	20.700
83871	17	11.363	7.996	83943	19	2.258	10.944	84015	17	6.388	14.349	84087	20	3.118	18.166	84159	16	23.209	20.016
83872	10	12.133	7.766	83944	16	4.853	10.321	84016	20	10.108	14.229	84088	11	6.191	18.624	84160	22	25.826	20.143
83873	16	13.904	7.644	83945	11	5.085	10.285	84017	34	16.373	14.165	84089	27	6.462	18.336	84161	30	0.598	21.492
83874	20	16.744	7.228	83946	10	5.440	10.161	84018	13	16.926	14.376	84090*	64	7.805	18.239	84162*	72	0.856	21.170
83875	13	16.838	7.515	83947*	46	6.145	10.672	84019	17	17.768	14.204	84091	14	7.983	18.585	84163	23	1.220	21.990
83876	42	22.242	7.954	83948	26	7.206	10.669	84020	16	22.884	14.930	84092	10	8.887	18.626	84164	12	1.925	21.825
83877	19	22.518	7.926	83949	17	7.774	10.568	84021	15	24.752	14.576	84093	39	9.105	18.440	84165	14	3.144	21.756
83878*	40	25.114	7.730	83950	16	8.450	10.681	84022	13	1.610	15.094	84094	16	9.316	18.105	84166	23	4.864	21.674
83879	12	25.172	7.656	83951	22	9.258	10.028	84023	37	3.258	15.745	84095	21	10.115	18.762	84167	9	4.884	21.165
83880	22	1.152	8.947	83952	22	9.834	10.501	84024	16	5.108	15.512	84096*	44	11.567	18.060	84168	36	5.734	21.098
83881	10	3.368	8.674	83953	23	12.658	10.254	84025	12	6.010	15.199	84097	20	11.600	18.850	84169	8	6.487	21.895
83882	14	3.989	8.622	83954	13	14.195	10.514	84026	18	7.332	15.445	84098	15	12.523	18.752	84170	22	6.864	21.574
83883	35	4.452	8.171	83955	24	14.538	10.456	84027	14	7.418	15.374	84099	9	14.542	18.148	84171	19	8.131	21.242
83884	11	5.090	8.045	83956	12	15.710	10.655	84028	19	8.198	15.936	84100	24	14.582	18.836	84172	17	9.886	21.652
83885	11	5.330	8.360	83957	12	17.434	10.840	84029*	56	8.482	15.199	84101	11	14.640	18.333	84173	13	10.876	21.838
83886	20	6.376	8.986	83958	19	17.656	10.741	84030	40	10.312	15.356	84102	37	15.274	18.136	84174*	40	11.668	21.944
83887	17	6.486	8.216	83959	16	17.932	10.186	84031	15	10.526	15.056	84103	15	16.526	18.409	84175	11	13.100	21.530
83888	10	8.480	8.164	83960	17	18.416	10.697	84032	13	11.496	15.504	84104	13	17.616	18.772	84176	14	15.644	21.336
83889	18	8.706	8.665	83961	16	19.404	10.954	84033	15	12.820	15.732	84105	13	18.544	18.680	84177	20	16.560	21.416
83890	19	9.785	8.655	83962	23	22.454	10.918	840											



84188	20	5 239	22.964	84260	16	5.740	25.434	84328	22	23.372	1.600	84400	29	25.140	4.999	84472	10	3.900	7.100
84189	12	6.947	22.832	84261	22	6.282	25.802	84329	10	23.924	1.662	84401	27	25.278	4.569	84473	13	11.240	7.806
84190	10	7.900	22.146	84262	14	6.306	25.920	84330	17	25.948	1.094	84402	11	0.368	5.444	84474	10	11.390	7.281
84191	21	9.672	22.502	84263	11	6.734	25.113	84331	10	1.064	2.339	84403	26	0.440	5.560	84475	26	12.070	7.174
84192	24	9.948	22.446	84264	12	6.816	25.062	84332	10	1.066	2.621	84404	14	1.224	5.788	84476	20	12.956	7.898
84193	10	11.760	22.604	84265	25	7.560	25.762	84333	32	2.721	2.030	84405	27	1.542	5.925	84477	29	13.968	7.384
84194	20	12.074	22.368	84266	12	8.086	25.526	84334*	52	5.890	2.510	84406	17	2.714	5.135	84478	32	14.030	7.834
84195	16	13.094	22.724	84267	36	8.700	25.976	84335	12	6.478	2.112	84407	26	4.032	5.870	84479	24	14.315	7.830
84196	14	13.893	22.444	84268	15	9.084	25.454	84336	21	6.668	2.700	84408	33	4.642	5.298	84480	15	14.590	7.100
84197	11	14.016	22.600	84269	41	9.672	25.579	84337	14	6.910	2.783	84409	12	4.670	5.883	84481	12	14.600	7.190
84198	10	14.900	22.944	84270	13	10.590	25.436	84338	20	9.020	2.500	84410	29	6.056	5.272	84482	10	16.100	7.040
84199	15	15.788	22.536	84271	44	11.885	25.444	84339	13	10.582	2.470	84411	10	6.429	5.758	84483	24	18.757	7.095
84200	9	19.550	22.840	84272	9	12.814	25.204	84340	12	10.956	2.372	84412	29	6.954	5.234	84484	14	20.055	7.264
84201	23	19.851	22.995	84273	21	13.156	25.228	84341	27	14.000	2.666	84413	14	7.672	5.995	84485	30	24.600	7.910
84202	13	20.912	22.996	84274	17	18.575	25.924	84342	27	15.055	2.564	84414	22	7.690	5.996	84486	50	0.361	8.488
84203	13	25.562	22.005	84275	19	19.726	25.024	84343	10	16.490	2.560	84415	12	8.679	5.483	84487	23	0.640	8.458
84204	33	1.364	23.482	84276	10	20.314	25.304	84344	16	17.059	2.460	84416	15	9.426	5.606	84488	10	1.454	8.315
84205*	39	1.518	23.176	84277	19	21.112	25.608	84345	31	17.990	2.893	84417*	48	9.890	5.666	84489	30	1.998	8.894
84206	39	1.676	23.364	84278	23	21.458	25.910	84346	23	18.825	2.350	84418	41	10.147	5.848	84490	13	2.165	8.622
84207	13	3.955	23.724	84279	9	23.784	25.956	84347*	56	20.772	2.764	84419	15	11.312	5.690	84491*	48	3.228	8.212
84208	13	5.216	23.124	84280	44	24.178	25.990	84348*	68	22.596	2.999	84420	38	11.332	5.593	84492	13	3.290	8.137
84209	24	5.225	23.104					84349	10	23.416	2.228	84421	11	11.341	5.594	84493	21	5.290	8.284
84210	10	6.706	23.480					84350	11	24.463	2.180	84422	14	12.210	5.020	84494	17	6.144	8.590
84211	9	7.052	23.337					84351	20	24.482	2.934	84423	11	12.570	5.000	84495	25	12.450	8.423
84212	13	8.655	23.819					84352	30	3.050	3.464	84424	30	13.100	5.630	84496	10	12.491	8.134
84213	17	9.335	23.342					84353	9	3.275	3.588	84425	19	13.472	5.850	84497	12	13.532	8.470
84214	15	9.664	23.472					84354	15	3.380	3.886	84426	25	14.154	5.549	84498	9	13.760	8.314
84215	9	11.050	23.478					84355*	56	3.660	3.967	84427	11	14.532	5.330	84499	12	14.820	8.840
84216	20	11.150	23.434					84356	14	3.948	3.392	84428	20	16.464	5.578	84500	10	15.396	8.412
84217	33	12.171	23.002					84357	18	4.160	3.801	84429	10	17.150	5.220	84501	28	15.892	8.994
84218	28	13.216	23.918					84358	18	4.669	3.788	84430	39	17.267	5.616	84502	21	16.428	8.820
84219	13	13.847	23.564					84359	10	4.896	3.722	84431	12	17.614	5.447	84503	28	17.568	8.614
84220	21	13.934	23.416					84360	23	6.804	3.286	84432	10	18.900	5.225	84504	11	19.223	8.355
84221	8	14.266	23.805					84361	48	7.400	3.604	84433	12	19.422	5.965	84505	33	20.420	8.412
84222	16	16.885	23.505					84362	11	7.407	3.372	84434	28	19.790	5.154	84506	25	20.696	8.780
84223	18	17.136	23.354					84363	10	10.251	3.105	84435	27	20.644	5.516	84507	14	21.558	8.026
84224	11	18.472	23.189					84364	34	10.480	3.513	84436	43	20.820	5.466	84508	16	22.058	8.200
84225	10	18.588	23.248					84365	14	12.850	3.042	84437	44	22.320	5.143	84509	30	23.744	8.823
84226	10	19.106	23.014					84366	14	13.100	3.558	84438	47	23.958	5.600	84510	19	24.160	8.020
84227	23	20.640	23.012					84367	14	13.200	3.203	84439	26	24.740	5.496	84511	15	24.467	8.910
84228	16	22.808	23.534					84368	30	13.982	3.201	84440	25	24.936	5.810	84512	12	25.704	8.515
84229	44	25.236	23.945					84369	12	15.208	3.746	84441	37	25.000	5.882	84513	27	1.249	9.076
84230	12	0.389	24.926					84370	13	16.060	3.030	84442	14	25.684	5.710	84514	25	1.400	9.456
84231	26	6.149	24.642					84371	31	18.239	3.146	84443	13	3.939	6.138	84515	10	2.009	9.916
84232	27	6.616	24.504					84372	14	19.560	3.154	84444	30	4.040	6.349	84516	28	2.120	9.050
84233	17	9.980	24.364					84373	17	19.950	3.852	84445	13	4.124	6.696	84517	41	2.282	9.150
84234	23	10.134	24.987					84374	24	20.988	3.364	84446	22	5.846	6.448	84518	24	3.420	9.100
84235	24	10.950	24.670					84375	12	22.878	3.048	84447	15	7.362	6.940	84519	26	3.814	9.817
84236	36	11.504	24.944					84376	28	25.100	3.282	84448	15	7.830	6.960	84520	11	4.748	9.360
84237	25	11.764	24.526					84377	11	1.512	4.798	84449	11	8.050	6.414	84521	41	6.810	9.866
84238*	48	11.827	24.000					84378	23	1.565	4.744	84450	13	8.100	6.456	84522	19	7.240	9.710
84239	18	13.718	24.306					84379	15	3.168	4.670	84451	14	9.201	6.960	84523	11	8.437	9.079
84240	9	15.564	24.136					84380	16	3.359	4.550	84452	48	9.400	6.278	84524	16	10.990	9.606
84241	13	15.798	24.987					84381	15	3.407	4.012	84453	23	9.545	6.633	84525	39	12.416	9.822
84242	22	16.448	24.445					84382	28	5.480	4.072	84454	29	10.050	6.690	84526	12	13.304	9.284
84243	17	16.651	24.396					84383	12	6.730	4.290	84455	12	12.405	6.828	84527	18	13.376	9.976
84244	13	17.923	24.286					84384	26	8.726	4.680	84456	12	13.001	6.320	84528	14	13.689	9.759
84245	17	18.522	24.054					84385*	48	9.290	4.472	84457	31	13.064	6.995	84529	19	13.835	9.375
84246	24	18.525	24.446					84386	12	10.085	4.193	84458*	45	14.691	6.317	84530	20	13.935	9.360
84247	15	18.666	24.100					84387	15	10.878	4.675	84459	10	15.180	6.297	84531	17	13.959	9.356
84248	10	23.049	24.815					84388	26	13.690	4.826	84460	15	15.800	6.976	84532	21	14.508	9.916
84249	15	23.143	24.166					84389	27	14.070	4.521	84461*	41	16.238	6.570	84533	17	14.872	9.950
84250	39	24.748	24.257					84390	17	14.166	4.780	84462	22	17.144	6.001	84534	11	15.560	9.376
84251	32	25.380	24.404					84391	10	14.332	4.812	84463	10	17.814	6.276	84535	19	15.616	9.950
84252	37	0.047	25.864					84392	15	14.670	4.474	84464	10	17.930	6.960	84536	29	16.060	9.588
84253	12	3.247	25.258					84393	19	17.090	4.320	84465	12	17.933	6.865	84537	43	16.660	9.520
84254	21	4.078	25.556					84394	11	20.368	4.760	84466	17	18.500	6.397	84538	28	19.706	9.912
84255	22	4.146	25.032					84395	28	20.800	4.175	84467	30	20.750	6.736	84539	12	21.870	9.066
84256	13	4.248	25.824																



84544	21	25.171	9.805	84616	12	19.990	12.848	84688	10	17.990	15.215	84760	10	9.400	18.900	84832	19	8.692	21.724
84545	14	2.737	10.856	84617	24	20.340	12.152	84689	33	20.693	15.006	84761	12	9.456	18.907	84833	27	9.404	21.020
84546	20	3.493	10.437	84618	10	20.400	12.165	84690	11	21.305	15.839	84762	15	9.918	18.779	84834	12	10.604	21.742
84547	11	6.209	10.200	84619	10	22.472	12.318	84691	39	21.506	15.710	84763	32	10.155	18.668	84835	29	10.977	21.184
84548	12	6.351	10.890	84620	30	23.870	12.358	84692	35	22.270	15.122	84764	22	11.040	18.160	84836	20	11.782	21.342
84549	10	7.109	10.774	84621	10	0.406	13.776	84693	30	22.995	15.354	84765	11	12.270	18.647	84837	39	11.835	21.640
84550	12	7.604	10.917	84622	46	0.850	13.727	84694	10	24.612	15.045	84766	16	12.450	18.084	84838	10	11.893	21.020
84551	10	12.905	10.616	84623	11	1.042	13.454	84695	10	24.634	15.093	84767	14	13.309	18.040	84839	31	12.244	21.594
84552	10	14.073	10.944	84624	11	1.730	13.008	84696	30	25.166	15.774	84768	14	14.140	18.724	84840	45	15.332	21.736
84553	14	15.120	10.090	84625	17	3.318	13.700	84697	34	0.628	16.830	84769	12	14.865	18.036	84841	24	15.778	21.394
84554	41	15.628	10.030	84626	73	4.165	13.272	84698	11	3.225	16.580	84770	28	14.977	18.788	84842	24	16.130	21.486
84555	11	16.412	10.291	84627	16	5.178	13.903	84699	13	3.760	16.055	84771	15	15.710	18.879	84843	21	16.875	21.460
84556	31	16.842	10.661	84628	32	5.304	13.969	84700	12	4.266	16.910	84772	10	15.860	18.464	84844	10	17.314	21.830
84557	15	17.066	10.917	84629	39	5.608	13.650	84701	25	4.310	16.541	84773	40	15.935	18.510	84845	16	17.509	21.204
84558	28	20.605	10.613	84630	21	6.896	13.692	84702	26	5.889	16.264	84774	12	16.329	18.794	84846	38	18.022	21.532
84559	23	21.206	10.237	84631	16	7.374	13.680	84703	22	5.936	16.785	84775	23	16.710	18.174	84847	8	19.160	21.898
84560	10	22.825	10.031	84632	24	9.380	13.418	84704	21	6.115	16.422	84776	11	20.870	18.710	84848	29	23.800	21.480
84561	26	24.081	10.227	84633	12	16.355	13.189	84705	12	7.144	16.780	84777	14	20.920	18.750	84849	41	24.553	21.600
84562	26	24.968	10.390	84634	10	16.802	13.550	84706	10	12.500	16.344	84778	22	22.088	18.577	84850	74	25.310	21.572
84563	25	0.632	11.450	84635	11	18.316	13.124	84707	11	12.544	16.980	84779	24	22.186	18.390	84851	12	25.550	21.472
84564	20	2.907	11.034	84636	10	18.553	13.484	84708	14	12.930	16.170	84780	28	22.816	18.218	84852	40	25.782	21.050
84565	10	2.914	11.671	84637	14	19.215	13.095	84709	17	13.180	16.458	84781	14	22.957	18.030	84853	30	1.903	22.110
84566	29	4.093	11.156	84638	27	19.348	13.270	84710	19	14.590	16.864	84782	35	24.518	18.560	84854	18	3.940	22.472
84567	20	4.429	11.932	84639	30	20.464	13.892	84711	33	14.694	16.606	84783	35	0.060	19.746	84855	16	5.118	22.300
84568	11	6.163	11.686	84640	17	21.804	13.540	84712	11	15.030	16.868	84784	43	1.918	19.083	84856	14	6.913	22.298
84569	14	6.568	11.564	84641	11	22.628	13.816	84713	27	15.374	16.440	84785	17	2.464	19.516	84857	35	9.432	22.050
84570	21	7.107	11.228	84642	16	23.318	13.006	84714	14	15.536	16.028	84786	49	2.504	19.750	84858	10	9.654	22.262
84571	10	7.882	11.266	84643	10	23.422	13.762	84715	13	16.070	16.843	84787	41	4.885	19.111	84859	11	9.960	22.086
84572	27	8.954	11.728	84644	19	23.616	13.861	84716	17	17.784	16.060	84788	12	6.240	19.296	84860	36	10.384	22.570
84573	24	9.896	11.228	84645	42	23.990	13.157	84717	10	17.910	16.766	84789	14	6.380	19.580	84861	15	10.400	22.452
84574	27	10.422	11.117	84646	26	25.164	13.104	84718	59	19.790	16.336	84790	24	8.110	19.920	84862	14	10.846	22.032
84575	18	12.280	11.645	84647	12	3.276	14.085	84719	40	20.260	16.540	84791	32	10.589	19.880	84863	18	10.999	22.682
84576*	64	13.035	11.167	84648	33	4.481	14.830	84720	26	24.590	16.140	84792	20	10.590	19.852	84864	10	11.090	22.325
84577	10	13.630	11.088	84649	11	5.380	14.121	84721	75	25.504	16.492	84793	11	11.610	19.653	84865	40	11.609	22.713
84578	30	14.398	11.897	84650	14	5.556	14.062	84722	10	1.804	17.884	84794*	45	12.201	19.632	84866	10	12.282	22.450
84579	28	14.572	11.264	84651	14	6.120	14.193	84723	15	4.630	17.854	84795	12	13.512	19.054	84867	10	13.310	22.340
84580	35	15.679	11.342	84652	27	6.766	14.960	84724	28	5.836	17.510	84796	12	13.933	19.140	84868	11	13.555	22.643
84581	34	18.826	11.371	84653	17	8.094	14.840	84725	24	7.725	17.414	84797	34	14.292	19.420	84869	14	14.256	22.036
84582	17	19.338	11.590	84654	30	10.130	14.901	84726	46	7.893	17.730	84798	39	17.900	19.592	84870	18	14.265	22.788
84583	22	19.722	11.179	84655	12	11.115	14.701	84727	40	7.930	17.058	84799	13	17.928	19.032	84871	15	14.484	22.484
84584	31	19.956	11.956	84656	15	12.576	14.673	84728	15	8.584	17.430	84800	31	18.644	19.610	84872	11	15.243	22.456
84585*	73	20.036	11.688	84657	14	13.400	14.120	84729	12	9.734	17.992	84801	10	18.892	19.532	84873	26	15.452	22.275
84586	10	20.188	11.200	84658	25	14.382	14.955	84730	25	10.232	17.170	84802	10	19.570	19.248	84874	13	15.870	22.154
84587	31	20.836	11.406	84659	10	17.320	14.136	84731	10	10.787	17.576	84803	34	19.582	19.260	84875	18	15.906	22.900
84588	41	21.475	11.700	84660	10	17.371	14.206	84732	13	10.800	17.965	84804	14	19.950	19.690	84876	28	16.068	22.214
84589*	80	21.560	11.440	84661	18	19.970	14.200	84733	10	11.650	17.422	84805	11	22.860	19.030	84877	27	16.928	22.894
84590	21	22.880	11.605	84662	28	20.350	14.578	84734	15	12.896	17.884	84806	19	24.011	19.122	84878	24	17.063	22.444
84591	15	24.034	11.840	84663	25	20.688	14.710	84735	20	13.750	17.950	84807	13	25.225	19.989	84879	23	17.326	22.960
84592	31	0.034	12.508	84664	10	21.426	14.263	84736	10	14.024	17.184	84808	16	1.554	20.525	84880	13	17.766	22.154
84593	26	1.757	12.832	84665	31	22.890	14.485	84737	25	14.678	17.690	84809	24	3.123	20.164	84881	42	22.140	22.326
84594	24	2.735	12.958	84666	31	23.484	14.686	84738	40	14.870	17.576	84810	28	4.170	20.606	84882	16	22.280	22.310
84595	28	2.966	12.821	84667	27	24.821	14.914	84739	13	16.022	17.358	84811	10	5.120	20.238	84883	29	22.512	22.250
84596	17	3.940	12.918	84668	32	24.890	14.010	84740	24	16.464	17.022	84812	10	5.538	20.532	84884	16	23.894	22.302
84597	10	5.499	12.780	84669	23	24.996	14.226	84741	10	17.634	17.224	84813	10	7.370	20.321	84885	10	24.317	22.057
84598	10	5.878	12.970	84670	13	1.134	15.450	84742	12	18.386	17.274	84814	11	7.629	20.507	84886	14	24.690	22.236
84599	19	6.100	12.556	84671	18	2.997	15.063	84743	13	19.434	17.770	84815	13	7.820	20.652	84887	16	8.172	23.280
84600	16	6.858	12.208	84672	19	5.475	15.702	84744	18	19.540	17.206	84816	27	9.510	20.036	84888	37	9.474	23.798
84601	11	6.931	12.597	84673	14	6.233	15.110	84745	44	19.606	17.019	84817	9	9.648	20.162	84889	11	11.043	23.270
84602	14	7.890	12.659	84674	16	7.280	15.971	84746	24	20.227	17.928	84818	10	11.836	20.440	84890	15	11.522	23.260
84603	10	7.967	12.414	84675	14	8.535	15.030	84747	19	20.392	17.080	84819	10	12.324	20.560	84891	17	13.384	23.064
84604	11	9.466	12.590	84676	21	8.749	15.020	84748	13	21.712	17.747	84820	37	13.426	20.941	84892	37	13.781	23.405
84605	10	9.520	12.480	84677	16	8.975	15.188	84749	39	22.421	17.826	84821	14	15.04					



84904	16	1.218	24.050	84964	20	9.420	1.510	85036	15	10.131	6.847	85108	30	20.894	11.758	85180	11	21.436	15.976
84905	47	3.165	24.740	84965	15	10.102	1.983	85037	18	16.614	6.765	85109	12	22.556	11.287	85181	20	22.058	15.668
84906	52	3.645	24.420	84966	12	10.585	1.388	85038	14	21.160	6.403	85110	19	23.798	11.826	85182	13	25.705	15.252
84907	32	3.801	24.875	84967	13	16.260	1.116	85039	12	21.818	6.690	85111	20	23.997	11.144	85183	17	2.658	16.188
84908	24	7.320	24.896	84968	16	18.564	1.255	85040	11	22.939	6.218	85112	27	25.414	11.259	85184	56	3.566	16.534
84909	29	10.345	24.520	84969	13	22.393	1.784	85041	16	23.222	6.860	85113	16	25.810	11.362	85185	11	5.449	16.538
84910	31	12.470	24.666	84970	13	2.500	2.980	85042	28	24.875	6.372	85114	19	1.920	12.408	85186	20	6.440	16.212
84911	12	13.007	24.600	84971	20	6.258	2.385	85043	13	25.378	6.408	85115	16	4.965	12.034	85187	10	6.470	16.341
84912	11	14.515	24.794	84972	25	7.291	2.290	85044	18	2.634	7.959	85116	16	5.935	12.745	85188	10	7.369	16.733
84913	12	15.704	24.378	84973	24	8.198	2.073	85045	15	11.890	7.180	85117	10	6.860	12.516	85189	11	7.683	16.964
84914	10	16.620	24.930	84974	25	13.400	2.712	85046	17	14.122	7.296	85118	11	7.329	12.328	85190	15	8.112	16.833
84915	46	16.855	24.324	84975	20	14.072	2.002	85047	16	14.459	7.766	85119	13	8.011	12.026	85191	29	8.406	16.138
84916	13	18.434	24.090	84976	24	14.736	2.038	85048	20	15.765	7.400	85120	10	9.480	12.384	85192	10	10.228	16.170
84917	44	19.096	24.179	84977	10	17.460	2.570	85049	38	16.445	7.470	85121	10	13.060	12.350	85193	12	12.644	16.094
84918	26	20.880	24.960	84978	17	18.205	2.939	85050	24	19.450	7.280	85122	9	15.500	12.218	85194	14	12.752	16.698
84919	24	21.678	21.820	84979	12	19.458	2.580	85051	15	19.489	7.698	85123	14	16.480	12.414	85195	24	12.760	16.903
84920	12	21.925	24.763	84980	20	20.325	2.730	85052	20	20.390	7.001	85124	10	18.540	12.880	85196	10	16.872	16.094
84921	24	22.448	24.598	84981	11	22.853	2.728	85053	15	1.782	8.875	85125	11	25.490	12.156	85197	11	22.044	16.276
84922	34	23.045	24.680	84982	21	23.448	2.955	85054	10	2.196	8.070	85126	10	1.674	13.913	85198	16	22.420	16.430
84923	34	23.145	24.942	84983	48	0.608	3.055	85055	10	2.508	8.956	85127	27	2.042	13.208	85199	16	22.732	16.592
84924	42	24.508	24.995	84984	18	3.122	3.326	85056	24	4.102	8.720	85128	13	3.219	13.150	85200	35	23.863	16.364
84925	24	6.004	25.460	84985	19	4.340	3.676	85057	10	5.305	8.312	85129	15	4.299	13.102	85201	21	0.490	17.884
84926	18	8.490	25.265	84986	10	8.532	3.217	85058	10	10.108	8.492	85130	16	5.265	13.224	85202	14	0.652	17.214
84927	16	8.594	25.506	84987	16	9.704	3.256	85059	13	12.228	8.745	85131	18	5.665	13.432	85203	12	3.078	17.446
84928	46	9.040	25.782	84988	24	10.290	3.352	85060	13	14.045	8.628	85132	14	10.142	13.310	85204	28	5.050	17.729
84929	31	9.920	25.226	84989	12	10.740	3.108	85061	11	15.132	8.148	85133	12	11.530	13.599	85205	25	6.541	17.088
84930	20	12.730	25.711	84990	18	11.282	3.010	85062	10	15.686	8.774	85134	13	12.235	13.307	85206	20	8.550	17.310
84931	11	13.120	25.252	84991	12	12.178	3.092	85063	14	23.314	8.760	85135	22	14.567	13.156	85207	11	9.276	17.892
84932	42	14.176	25.940	84992	9	12.806	3.976	85064	10	24.211	8.322	85136	15	16.288	13.572	85208	34	11.450	17.390
84933	39	18.000	25.790	84993	20	15.780	3.895	85065	21	25.540	8.598	85137	10	16.883	13.288	85209	20	12.392	17.324
84934	13	18.800	25.430	84994	18	16.030	3.708	85066	13	3.004	9.394	85138	15	17.390	13.678	85210	24	13.560	17.130
84935	10	18.974	25.664	84995	13	16.896	3.324	85067	23	3.020	9.914	85139	15	18.034	13.974	85211	20	15.230	17.478
84936	28	19.572	25.336	84996	11	20.680	3.148	85068	11	3.215	9.851	85140	22	18.518	13.068	85212	10	15.722	17.686
84937	24	21.710	25.104	84997	10	24.630	3.100	85069	14	4.066	9.032	85141	15	20.120	13.833	85213	12	15.991	17.260
84938	12	23.990	25.879	84998	11	1.698	4.579	85070	11	6.380	9.217	85142	12	22.800	13.945	85214	12	16.381	17.224
84939	45	24.182	25.368	84999	25	2.668	4.252	85071	14	8.580	9.545	85143	16	22.978	13.680	85215	12	17.255	17.600
84940	11	24.452	25.860	85000	18	3.302	4.614	85072	20	8.608	9.820	85144	19	0.948	14.540	85216	35	17.660	17.812
84941	41	25.800	25.430	85001	10	6.826	4.530	85073	9	9.298	9.521	85145	19	1.544	14.740	85217	12	19.577	17.768
				85002	9	6.838	4.720	85074	20	9.405	9.558	85146	14	2.882	14.960	85218	10	22.030	17.270
				85003	18	8.040	4.072	85075	18	13.360	9.032	85147	20	2.948	14.058	85219	18	25.024	17.964
				85004	11	8.339	4.646	85076	15	14.081	9.380	85148	15	3.054	14.272	85220	12	0.163	18.634
				85005	11	9.490	4.030	85077	11	14.222	9.354	85149	12	5.598	14.938	85221	13	0.260	18.446
				85006	13	13.149	4.572	85078	11	18.103	9.199	85150	16	5.795	14.649	85222	14	0.890	18.273
				85007	9	14.176	4.460	85079	14	18.254	9.804	85151	18	7.988	14.610	85223	20	2.590	18.610
				85008	31	15.694	4.945	85080	21	19.100	9.506	85152	32	9.110	14.255	85224	14	5.762	18.650
				85009	13	18.586	4.532	85081	28	19.940	9.284	85153	9	9.524	14.239	85225	13	7.068	18.692
				85010	21	18.873	4.464	85082	10	20.307	9.064	85154	21	10.125	14.282	85226	17	13.710	18.104
				85011	12	25.061	4.892	85083	10	21.817	9.770	85155	32	12.130	14.380	85227	10	13.992	18.468
				85012	25	0.342	5.200	85084	20	22.212	9.248	85156	42	16.690	14.370	85228	10	15.882	18.793
				85013	29	1.980	5.650	85085	38	22.526	9.589	85157	18	20.442	14.062	85229	10	16.902	18.488
				85014	15	2.769	5.543	85086	24	22.530	9.596	85158	11	21.392	14.670	85230	14	17.009	18.590
				85015	15	2.966	5.856	85087	16	2.125	10.275	85159	36	23.684	14.925	85231	16	17.336	18.896
				85016	22	3.030	5.930	85088	11	2.510	10.012	85160	14	24.562	14.474	85232	41	19.460	



85252	15	12 920	19-804	85324	10	11-868	23-853	85406	52	14-810	0-224	85478	37	17-634	5-280	85550	13	10-878	10 695
85253	28	13-690	19-849	85325	23	11-974	23-638	85407	55	16-428	0-485	85479	18	19-532	5-716	85551	20	10-904	10-592
85254	10	13 790	19 380	85326	11	13-216	23-110	85408	14	16-500	0 684	85480	18	0-126	6 615	85552	18	11-235	10 536
85255	17	13-854	19-100	85327	14	17-894	23-592	85409	25	19-478	0-245	85481	21	0 734	6-745	85553	20	11-920	10 936
85256	22	14-040	19 295	85328	10	18-390	23-515	85410	55	20-643	0-255	85482	46	2 669	6 870	85554	29	12 431	10-428
85257	10	16-096	19-194	85329	40	20-414	23-760	85411	14	22-352	0-038	85483	23	3-175	6-898	85555	37	12-804	10 623
85258	43	18 350	19 373	85330	18	23-418	23-202	85412	28	24-290	0 537	85484	32	4-162	6-486	85556	16	13-154	10-444
85259	36	18 390	19-936	85331	12	23-848	23-730	85413	32	0-065	1 264	85485	38	4-780	6 906	85557	16	13-214	10 680
85260	16	18 900	19 382	85332	10	25-479	23 737	85414	20	2-826	1-141	85486	16	5-479	6-386	85558	17	16-239	10 748
85261	10	18-967	19-814	85333	14	0 548	24-654	85415	51	3-835	1-434	85487	19	7-805	6 775	85559	33	17-674	10 356
85262	12	20-026	19-978	85334	18	1-145	24-732	85416	17	4-844	1 829	85488	13	10-268	6-972	85560	13	19-637	10-359
85263	10	24-332	19-678	85335	17	1-216	24-995	85417	37	6-117	1 765	85489	23	12-054	6-206	85561	23	19-744	10-704
85264	44	1-330	20-580	85336	10	3-881	24-034	85418	39	10-598	1 114	85490	16	15-584	6-468	85562	38	20 052	10 672
85265	16	1-804	20-764	85337	19	8-500	24-950	85419	28	12-960	1 804	85491	44	24-621	6-791	85563	14	22-795	10-725
85266	10	3-306	20-034	85338	15	15-122	24-112	85420	58	14-742	1-672	85492	38	25-025	6-373	85564	16	23-376	10-211
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85269	20	5-812	20-636	85341	10	19-280	24-822	85423	88	19-676	1-128	85495	20	5-890	7-164	85567	14	1-019	11 355
85270	21	7-188	20-237	85342	16	19-780	24-636	85424	39	23-366	1-043	85496	16	6 386	7-860	85568	37	1-858	11-654
85271	16	8-570	20-666	85343	14	20-880	24-940	85425	35	0-126	2-314	85497	19	7-664	7-504	85569	56	2-236	11-448
85272	18	9-700	20-140	85344	28	23-763	24-228	85426	15	2-515	2 074	85498	30	8-280	7 192	85570	42	3-276	11-749
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85274	16	13-222	20-270	85346	25	2-282	25-417	85428	38	6-378	2-828	85500	16	14-006	7 942	85572	21	4-994	11-134
85275	12	14-092	20-766	85347	22	2-606	25-042	85429	23	7-550	2-586	85501	27	15-473	7 906	85573	19	5 649	11-264
85276	10	14-093	20-732	85348	22	3-903	25-472	85430	57	13-400	2-064	85502	13	16-750	7-956	85574	23	9-761	11-195
85277	19	14-729	20-260	85349	25	4-470	25-544	85431	17	14-214	2-125	85503	36	16-849	7-137	85575	14	11-438	11-054
85278	24	18-922	20-748	85350	9	4-688	25-522	85432	24	17-686	2-516	85504	20	16-860	7-131	85576	18	13-085	11-101
85279	13	20 428	20 790	85351	10	6-028	25 830	85433	25	18-204	2-964	85505	15	21-100	7-194	85577	30	15-150	11-614
85280	22	23-670	20-910	85352	17	6-923	25 538	85434	14	18-838	2-536	85506	14	21-690	7-534	85578	14	17-046	11-294
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85282	14	1-888	21-530	85354	28	9-130	25-056	85436	35	19-911	2-614	85508	28	21-934	7-928	85580	15	19-143	11-366
85283	22	2-640	21-646	85355	12	9 324	25 718	85437	52	20-718	2-100	85509	34	23-815	7-778	85581	22	23 697	11-328
85284	52	3-390	21-618	85356	11	11 945	25 936	85438	56	23-380	2-600	85510	38	25-726	7-296	85582	25	25-810	11-856
85285	12	3-638	21-518	85357	10	13-698	25-703	85439	46	24-764	2-867	85511	17	2-036	8-827	85583	30	1-670	12-338
85286	24	3-864	21-090	85358	10	14-581	25-996	85440	23	0 594	3-254	85512	15	2-256	8-896	85584	13	2-574	12-474
85287	10	4-492	21-088	85359	11	15-012	25-636	85441	38	1-196	3-474	85513	16	3-998	8-644	85585	24	3-369	12-645
85288	13	6-061	21-720	85360	26	15-280	25-040	85442	19	2-384	3-600	85514	24	5-819	8-964	85586	18	3-906	12-072
85289	10	6-152	21-600	85361	10	15-426	25-854	85443	26	4-452	3-704	85515	22	6-252	8 626	85587	11	4-144	12-878
85290	14	6-560	21-796	85362	11	16-370	25-288	85444	34	5-310	3-404	85516	24	7-670	8-628	85588	35	5-525	12-781
85291	12	7-216	21 250	85363	12	19 124	25-820	85445	38	6-383	3-935	85517	23	8-924	8 058	85589	20	5-622	12-332
85292	9	9-764	21 112	85364	15	20-121	25-042	85446	20	7-140	3-577	85518	12	10-125	8 934	85590	16	8-666	12-882
85293	13	10-410	21-438	85365	10	21-928	25 592	85447	15	7-458	3-736	85519	14	11-742	8-238	85591	24	8-744	12-563
85294	20	11-577	21-428	85366	27	22-478	25-512	85448	22	8-950	3-310	85520	19	12-506	8-783	85592	44	10-408	12-628
85295	14	12-948	21-150	85367	60	24-788	25-388	85449	38	10-217	3-594	85521	16	16-121	8-264	85593	42	10-418	12-643
85296	10	18-117	21-287	85368	23	25-446	25 589	85450	38	10-698	3-595	85522	14	17-172	8-634	85594	23	10-642	12-846
85297	16	21-044	21-730	85369	15	25-476	25 374	85451	16	11-492	3-820	85523	14	17-398	8 018	85595	77	11-265	12-722
85298	14	22-312	21-662					85452	16	12-864	3-150	85524	17	17-829	8-556	85596	36	12-502	12-912
85299	20	0-224	22-386					85453	29	13 194	3-086	85525	46	18-325	8-535	85597	46	12-794	12-455
85300	13	0-371	22-368					85454	34	18-540	3-582	85526	28	19-014	8-895	85598	21	12-970	12-566
85301	16	0-602	22-305					85455	56	18-855	3-508	85527	26	21-642	8-433	85599	37	15-156	12-408
85302	9	1-984	22-354					85456	36	21-860	3-865	85528	17	21-953	8-390	85600	39	18-999	12-074
85303	10	2-780	22-284					85457	20	24 700	3-426	85529	13	25-554	8 980	85601	26	19-532	12-290
85304	9	8-346	22-287					85458	17	2-368	4-196	85530	34	0 048	9-784	85602	22	21-396	12-672
85305	19	9-334	22-950					85459	16	3-968	4-272	85531	11	1-073	9-192	85603	15	22-360	12-534
85306	13	9-904	22-688					85460	31	5 722	4-809	85532	28	1 145	9-278	85604	26	22-708	12-834
85307	13	10-090	22-100					85461	36	6-104	4-536	85533	38	3-367	9-086	85605	30	22-840	12-008
85308	21	10 582	22-716					85462	23	10-464	4-344	85534	13	6-370	9-045	85606	30	23-825	12-331
85309	14	14-578	22-882					85463	23	13-175	4-364	85535	13	11-224	9-602	85607	21	25-156	12-989
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85311	26	18-264	22-418					85465	15	20-540	4-706	85537	35	12-389	9-414	85609	19	3-058	13-885
85312	10	18-450	22-348					85466	37	20-714	4-220	85538	19	12-769	9-136	85610	17	5-738	13-910
85313	12	21-975	22-360					85467	23	21-566	4-764	85539	40	18-285	9-814	85611	22	5-934	13-402
85314	16	22-522	22-982					85468	32	24-788	4-404	85540	22	20-720	9-274	85612	9	6-693	13-548
85315	80	24-839	22-722					85469	21	0-351	5-972	85541	31	23-674	9-246	85613	26	6-769	13-686
85316	10	25-320	22-690					85470	12	2-702	5-645	8							



85622	29	0.876	14.204	85694	28	22.604	17.469	85766	26	3.970	22.806	<div>R.A. 20<sup>h</sup> 52<sup>m</sup></div> <div>Plate 1851, 1921 Oct. 29.</div> <div>Provisional Constants</div> <div>A B C</div> <div>—01735 + 00696 —0743</div> <div>D E F</div> <div>—00708 —01750 —2677</div> <div>Mag = 16.4 — 1.05√d</div>	85906	9	5.200	3.098
85623	24	2.474	14.975	85695*	55	0.313	18.974	85767	35	6.561	22.374		85907	45	7.023	3.021
85624	17	3.617	14.736	85696	37	2.986	18.459	85768	15	11.512	22.260		85908	12	7.448	3.567
85625	39	4.430	14.184	85697	28	7.825	18.076	85769	22	13.812	22.268		85909	8	9.293	3.888
85626	32	5.026	14.863	85698	15	10.272	18.085	85770	19	17.028	22.356		85910	10	11.544	3.994
85627	12	5.085	14.628	85699	30	13.927	18.654	85771	18	18.782	22.706		85911	19	12.340	3.256
85628	21	6.210	14.356	85700	14	14.332	18.383	85772	36	20.542	22.185		85912	13	13.717	3.015
85629	38	6.485	14.368	85701	42	17.635	18.728	85773	21	21.034	22.992		85913	23	13.899	3.070
85630	14	8.463	14.438	85702	37	18.295	18.964	85774	57	25.488	22.614		85914	21	14.276	3.790
85631	64	9.456	14.578	85703	15	19.210	18.424	85775	30	25.540	22.673		85915	19	14.975	3.858
85632	13	9.974	14.784	85704	14	20.867	18.884	85776	48	25.800	22.816	85916	11	15.074	3.812	
85633	33	12.688	14.766	85705	25	0.100	19.380	85777	34	0.555	23.515	85917	24	15.170	3.026	
85634	20	14.010	14.206	85706	38	0.885	19.264	85778	37	1.454	23.722	85918	12	15.520	3.694	
85635	20	16.095	14.989	85707	17	4.132	19.244	85779*	136	2.859	23.222	85919	20	15.807	3.870	
85636	17	16.552	14.750	85708	15	4.226	19.056	85780	28	3.350	23.184	85920	31	16.910	3.584	
85637	15	16.998	14.036	85709	21	5.100	19.434	85781	15	6.424	23.205	85921	8	18.076	3.406	
85638	16	19.972	14.960	85710	26	5.494	19.719	85782	35	6.444	23.656	85922	20	18.766	3.328	
85639	24	22.614	14.622	85711	15	9.674	19.194	85783	17	6.534	23.166	85923	17	20.604	3.998	
85640	30	25.120	14.694	85712	14	11.121	19.216	85784	17	7.087	23.044	85924	8	20.869	3.298	
85641*	50	1.598	15.439	85713	23	12.292	19.844	85785	14	10.026	23.428	85925	22	21.731	3.451	
85642	24	3.451	15.096	85714	38	12.571	19.424	85786	37	13.711	23.356	85926	8	22.516	3.885	
85643	22	3.628	15.739	85715	15	12.700	19.606	85787	40	15.394	23.820	85927	19	24.948	3.748	
85644	37	6.985	15.666	85716	17	13.772	19.156	85788	16	15.946	23.618	85928	21	2.765	4.231	
85645	46	8.084	15.422	85717	16	16.890	19.814	85789	16	16.455	23.826	85929	10	4.556	4.527	
85646	34	9.000	15.836	85718	36	18.439	19.064	85790	14	16.950	23.682	85930	21	5.014	4.532	
85647	12	9.173	15.036	85719	14	18.788	19.106	85791	37	21.522	23.256	85931	30	5.379	4.656	
85648	38	9.615	15.720	85720	18	18.866	19.660	85792	18	22.336	23.788	85932	31	5.636	4.666	
85649	46	11.306	15.976	85721	10	18.877	19.945	85793	37	24.461	23.174	85933	15	6.174	4.719	
85650	24	11.824	15.344	85722	14	18.984	19.334	85794	50	1.811	24.740	85934	20	6.943	4.092	
85651	23	12.685	15.575	85723*	72	19.875	19.858	85795	28	1.892	24.244	85935	22	7.522	4.070	
85652	57	18.101	15.387	85724	38	23.488	19.176	85796	23	3.524	24.224	85936	20	8.410	4.788	
85653	36	20.611	15.679	85725	18	24.456	19.474	85797	27	4.300	24.586	85937	10	9.600	4.107	
85654	38	22.891	15.690	85726	26	25.226	19.478	85798	14	4.896	24.452	85938	19	9.616	4.848	
85655	19	23.238	15.302	85727	37	25.509	19.226	85799	15	5.306	24.007	85939	8	9.779	4.693	
85656	38	24.954	15.809	85728	17	2.320	20.184	85800	28	7.718	24.182	85940	26	10.270	4.082	
85657	32	25.782	15.138	85729	26	3.095	20.588	85801	26	7.849	24.364	85941	11	13.334	4.554	
85658	33	0.360	16.964	85730	12	4.000	20.226	85802	16	8.350	24.256	85942	20	13.874	4.791	
85659	18	1.654	16.483	85731	38	4.305	20.097	85803	35	8.440	24.637	85943	19	14.992	4.467	
85660	44	1.798	16.875	85732	12	7.348	20.942	85804*	46	10.950	24.586	85944*	41	19.182	4.948	
85661	38	7.140	16.457	85733	23	8.070	20.636	85805	20	12.740	24.130	85945*	49	21.584	4.220	
85662	13	8.321	16.176	85734	42	8.070	20.423	85806	16	13.784	24.794	85946	22	23.096	4.146	
85663	38	9.347	16.794	85735	24	8.124	20.434	85807	24	16.081	24.490	85947	8	1.893	5.198	
85664	16	13.746	16.907	85736	23	10.808	20.350	85808*	42	16.314	24.495	85948	8	4.844	5.177	
85665	36	16.740	16.535	85737	20	11.660	20.808	85809	26	18.380	24.226	85949	14	5.372	5.582	
85666	30	16.976	16.694	85738	12	14.091	20.920	85810	20	19.364	24.502	85950	22	5.931	5.224	
85667	34	17.230	16.905	85739	17	14.438	20.870	85811	41	20.323	24.708	85951	11	7.884	5.414	
85668	21	17.610	16.605	85740*	96	15.860	20.786	85812	12	22.176	24.505	85952	9	7.950	5.208	
85669	34	19.572	16.516	85741	22	16.551	20.890	85813	12	1.658	25.464	85953	8	7.988	5.542	
85670	15	22.826	16.284	85742	21	17.858	20.816	85814	14	2.322	25.334	85954	16	8.542	5.701	
85671	32	0.674	17.123	85743	21	18.076	20.971	85815	70	2.846	25.885	85955	8	9.291	5.162	
85672	17	2.554	17.517	85744	15	19.285	20.402	85816	38	3.545	25.866	85956	22	9.365	5.540	
85673	17	4.788	17.605	85745	38	20.389	20.816	85817	48	3.804	25.288	85957	13	9.912	5.738	
85674	24	5.576	17.686	85746	18	20.806	20.998	85818	33	4.785	25.800	85958*	39	10.283	5.551	
85675	24	7.522	17.886	85747	26	21.216	20.754	85819	53	6.392	25.964	85959*	40	12.406	5.650	
85676	34	8.082	17.477	85748	15	21.688	20.380	85820	41	6.410	25.166	85960	26	17.274	5.251	
85677	23	9.302	17.147	85749	38	21.844	20.402	85821	37	6.556	25.598	85961	8	18.271	5.546	
85678	12	12.716	17.063	85750	18	22.920	20.430	85822	23	9.516	25.964	85962	12	18.880	5.264	
85679	20	12.812	17.958	85751	38	25.054	20.076	85823	14	10.858	25.557	85963	35	2.619	6.620	
85680	12	14.608	17.550	85752	35	25.407	20.910	85824*	44	16.654	25.198	85964	30	3.018	6.198	
85681	10	15.299	17.763	85753	37	1.670	21.424	85825	21	16.908	25.052	85965	8	3.059	6.554	
85682	32	15.946	17.212	85754	17	2.178	21.0.									



85978*	39	15.306	6.832	86050	19	13.612	10.535	86122	19	3.206	14.518	86194	26	15.660	17.982	86266	20	24.663	20.836
85979	14	17.956	6.923	86051	16	13.688	10.752	86123	19	3.876	14.956	86195	30	16.315	17.972	86267*	41	24.848	20.927
85980	24	19.877	6.038	86052	9	13.780	10.284	86124	12	6.504	14.317	86196	18	16.513	17.660	86268	10	25.914	20.450
85981	14	23.256	6.967	86053	8	15.600	10.272	86125	26	6.532	14.592	86197	8	17.093	17.239	86269	15	4.859	21.800
85982	12	23.364	6.368	86054	22	16.570	10.182	86126	9	6.558	14.633	86198	29	20.589	17.648	86270	26	7.803	21.400
85983	8	24.234	6.811	86055	56	17.400	10.412	86127	8	7.510	14.117	86199	13	22.232	17.247	86271	8	11.222	21.449
85984	23	1.827	7.617	86056	11	17.602	10.253	86128	20	9.970	14.426	86200	10	22.486	17.116	86272	17	11.765	21.376
85985	8	3.628	7.857	86057*	43	18.341	10.750	86129	15	10.706	14.948	86201	9	24.804	17.169	86273	9	12.242	21.678
85986	33	3.730	7.114	86058	14	18.737	10.298	86130	19	11.091	14.888	86202	8	3.346	18.638	86274	16	12.998	21.962
85987	8	6.640	7.989	86059	21	18.892	10.614	86131	17	11.662	14.466	86203*	35	6.350	18.329	86275	11	13.950	21.189
85988	16	8.032	7.975	86060	10	19.756	10.607	86132	26	14.324	14.014	86204	18	8.150	18.081	86276	8	13.952	21.616
85989	24	8.570	7.379	86061	8	20.280	10.195	86133	8	18.048	14.990	86205	21	8.244	18.870	86277	21	16.912	21.328
85990	32	8.772	7.422	86062	12	20.518	10.234	86134	19	18.238	14.772	86206	13	9.057	18.939	86278	25	17.316	21.569
85991	15	8.864	7.960	86063	31	21.585	10.557	86135	10	18.446	14.842	86207	10	9.485	18.616	86279	23	21.266	21.473
85992	14	9.410	7.938	86064	10	22.544	10.168	86136	18	19.122	14.994	86208	17	11.450	18.698	86280	30	21.324	21.479
85993	15	15.590	7.224	86065	16	22.854	10.142	86137	24	21.798	14.897	86209	14	12.402	18.485	86281	41	25.021	21.915
85994	21	16.284	7.158	86066	18	23.082	10.136	86138	26	22.328	14.488	86210	18	13.126	18.572	86282*	43	3.654	22.430
85995	10	20.410	7.505	86067	30	25.796	10.148	86139	20	22.478	14.768	86211	10	18.021	18.324	86283	20	3.714	22.491
85996	17	21.333	7.420	86068	20	0.897	11.856	86140	8	22.568	14.800	86212	37	19.725	18.796	86284	35	3.972	22.630
85997	8	1.806	8.359	86069	15	1.748	11.170	86141	9	23.063	14.756	86213	11	22.102	18.452	86285	13	4.178	22.174
85998	9	2.640	8.066	86070	10	3.088	11.522	86142	11	24.490	14.898	86214	8	24.301	18.876	86286	10	8.573	22.126
85999	12	2.667	8.809	86071	18	3.866	11.672	86143	12	25.306	14.183	86215*	35	24.752	18.453	86287	20	9.567	22.706
86000	13	3.580	8.800	86072	13	5.111	11.832	86144	31	25.987	14.253	86216	10	25.002	18.920	86288	15	9.858	22.302
86001	8	4.584	8.033	86073	14	6.167	11.326	86145	31	0.987	15.538	86217	26	1.624	19.018	86289	14	11.781	22.148
86002	38	6.408	8.396	86074	14	7.537	11.348	86146	14	1.331	15.146	86218	13	2.596	19.303	86290	10	11.825	22.570
86003	17	6.792	8.572	86075	9	9.678	11.874	86147	31	3.050	15.634	86219	25	3.198	19.900	86291	23	12.294	22.969
86004	15	11.096	8.234	86076	12	10.897	11.547	86148	10	9.368	15.976	86220	18	3.365	19.302	86292	14	12.540	22.160
86005	20	12.763	8.577	86077	11	13.591	11.764	86149	26	11.059	15.188	86221	26	3.644	19.045	86293	14	12.931	22.782
86006*	37	15.532	8.846	86078	13	13.614	11.834	86150	14	13.794	15.630	86222	16	4.285	19.514	86294	11	17.740	22.762
86007	17	17.487	8.991	86079	13	13.848	11.109	86151	17	15.748	15.417	86223	9	5.595	19.252	86295	10	18.681	22.712
86008	17	21.002	8.727	86080	27	14.286	11.544	86152	26	19.342	15.292	86224	21	5.944	19.510	86296	29	21.555	22.236
86009	24	23.343	8.762	86081	8	15.284	11.688	86153	8	20.690	15.567	86225	14	6.064	19.960	86297*	41	22.454	22.276
86010	12	23.990	8.552	86082	13	17.170	11.172	86154	10	20.893	15.806	86226	24	6.278	19.691	86298	10	25.506	22.564
86011	8	24.718	8.526	86083	9	19.432	11.144	86155	20	20.965	15.090	86227	14	7.067	19.693	86299	13	0.523	23.644
86012	20	25.919	8.542	86084	8	19.663	11.772	86156	13	22.317	15.850	86228	15	8.361	19.998	86300	8	1.396	23.262
86013	21	1.701	9.088	86085	9	19.741	11.697	86157	23	24.255	15.096	86229	14	10.051	19.054	86301	24	2.639	23.002
86014	11	2.154	9.304	86086	30	21.405	11.566	86158	14	24.730	15.014	86230	25	10.776	19.836	86302	9	3.744	23.662
86015	8	4.921	9.142	86087	14	21.513	11.610	86159	15	24.977	15.770	86231	10	12.353	19.872	86303	13	4.630	23.454
86016	23	8.931	9.474	86088	9	25.973	11.968	86160	8	0.932	16.134	86232*	39	13.156	19.534	86304	12	5.974	23.520
86017	34	8.983	9.296	86089	11	0.428	12.386	86161*	64	4.501	16.371	86233	34	14.364	19.707	86305	13	9.010	23.825
86018	29	9.025	9.609	86090	20	0.774	12.083	86162	22	6.324	16.678	86234	15	14.676	19.248	86306	8	9.561	23.154
86019	12	10.132	9.082	86091	23	1.885	12.168	86163	20	6.864	16.170	86235	10	16.110	19.040	86307	9	12.351	23.457
86020	19	11.830	9.718	86092	8	2.198	12.080	86164	24	7.387	16.138	86236	17	16.490	19.638	86308*	50	12.893	23.513
86021	8	12.845	9.346	86093	15	3.220	12.813	86165	20	7.542	16.488	86237	11	16.720	19.353	86309	10	13.878	23.208
86022	25	14.228	9.595	86094	17	4.066	12.612	86166	8	8.728	16.571	86238	14	17.072	19.908	86310	20	15.090	23.008
86023	11	16.623	9.173	86095	13	4.953	12.107	86167	24	12.971	16.212	86239	14	17.882	19.618	86311	22	17.918	23.762
86024	11	17.560	9.724	86096	8	8.208	12.322	86168	9	15.800	16.520	86240	8	18.545	19.669	86312	11	19.453	23.632
86025	20	18.052	9.114	86097*	37	9.290	12.060	86169	18	16.090	16.505	86241	20	19.172	19.368	86313	9	0.370	24.354
86026	13	19.513	9.628	86098	10	10.317	12.723	86170	25	16.212	16.622	86242	29	19.574	19.499	86314	10	3.841	24.254
86027	13	19.518	9.334	86099	10	11.588	12.932	86171	8	17.730	16.213	86243	13	22.464	19.654	86315	12	4.932	24.076
86028	28	19.724	9.498	86100	22	15.516	12.098	86172	10	19.625	16.109	86244	31	22.683	19.962	86316	19	7.225	24.006
86029	24	20.243	9.130	86101	20	17.250	12.390	86173	13	23.360	16.788	86245	22	23.265	19.036	86317	8	8.046	24.465
86030	18	21.175	9.949	86102	9	19.534	12.258	86174	12	24.019	16.162	86246	8	23.560	19.414	86318	8	8.183	24.970
86031	15	21.180	9.818	86103	37	20.360	12.198	86175	16	25.106	16.468	86247	11	24.454	19.999	86319	17	8.420	25.565
86032	8	22.202	9.543	86104	32	21.866	12.684	86176	14	25.926	16.268	86248	14	1.070	20.276	86320	12	8.706	24.499
86033	26	22.600	9.096	86105	19	22.220	12.819	86177	13	0.410	17.822	86249	13	1.793	20.984	86321	11	10.140	24.960
86034*	40	25.400	9.172	86106	17	22.753	12.420	86178	21	0.721	17.320	86250	24	3.562	20.730	86322	12	11.172	24.002
86035	16	25.465	9.966	86107	10	24.974	12.842	86179	12	4.578	17.416	86251	25	4.338	20.140	86323*	41	11.566	24.391
86036	8	25.869	9.656	86108*	39	0.113	13.354	86180	20	4.762	17.429	86252	11	4.760	20.184	86324	26	11.574	24.401
86037	10	0.842	10.574	86109	8	1.647	13.552	86181	10	5.456	17.994	86253	14	6.441	20.608	86325	26	12.977	24.306
86038	11	1.414	10.052	86110	15	3.126	13.264	86182	9	7.211	17.808	86254	21	6.556	20.478	86326	19	14.224	24.076
86039	13	3.364	10.511	86111	18	9.614	13.253	86183	11	9.024	17.406	86255	8	7.440	20.038	86327	26	14.232	24.004
86040	13	4.169	10.218	86112	12	10.114													



86338	21	12.910	25 685	86392	36	7.085	2.486	86464*	80	22 445	7 956	86536	18	21.240	12 732	86608	21	22.836	17.188
86339	11	14.218	25.240	86393	11	7 848	2 024	86465	14	25.210	7.529	86537*	105	23.221	12 210	86609	12	23.545	17.784
86340	12	14.636	25.729	86394	21	8 245	2.805	86466	30	5 354	8.538	86538	19	0.080	13.376	86610*	40	2.698	18.971
86341	28	14.812	25 726	86395	22	11 042	2.993	86467	17	11.825	8 015	86539	20	0.976	13.956	86611	12	7.362	18.466
86342	25	15.702	25.431	86396	35	12 404	2.056	86468	31	11 928	8.027	86540	31	6.795	13.395	86612	18	9.260	18.492
86343	13	18.742	25.192	86397	33	13.788	2 830	86469	13	13.900	8.460	86541	14	8.544	13 870	86613	15	11 662	18.825
86344	28	24.486	25.102	86398*	50	15.736	2.202	86470	40	16 415	8 358	86542	24	8.607	13 972	86614	18	12.236	18.054
				86399	25	18 552	2.628	86471	14	17 378	8 052	86543	13	8.804	13 594	86615	9	12.816	18 420
				86400	40	19 328	2 495	86472	27	21.775	8.490	86544	40	21.024	13.002	86616	15	15.698	18.222
				86401	15	19 384	2.786	86473	28	0 400	9 650	86545	22	21.150	13.372	86617*	43	18 745	18 868
				86402	24	19.808	2 540	86474	25	1.138	9.302	86546	16	22.148	13 586	86618	18	19.379	18.294
				86403	20	24 668	2.792	86475	15	1.782	9.084	86547	39	24.364	13 331	86619	21	20 810	18.160
				86404	24	3.962	3.445	86476	12	2 514	9.045	86548	13	3.188	14.693	86620	9	21.630	18.985
				86405	10	5.036	3 710	86477	9	2.974	9.951	86549	40	3 867	14 752	86621	22	23.045	18.676
				86406	15	6.046	3.394	86478*	44	3.198	9.684	86550	14	5.174	14.978	86622*	48	23.300	18.018
				86407	30	6 354	3.234	86479	20	3.714	9 045	86551*	64	7.618	14 519	86623	20	23 732	18.930
				86408	13	6.736	3 932	86480	40	5.547	9.514	86552	17	8 168	14 605	86624	32	24.336	18.826
				86409	17	8.126	3.464	86481	21	8.597	9.710	86553	20	13.734	14.805	86625	31	25.636	18.075
				86410	28	8.576	3.246	86482	16	11.334	9.065	86554	13	14 160	14.606	86626	23	1.220	19.578
				86411*	140	9.011	3.967	86483	15	11.496	9.758	86555*	52	16.240	14.553	86627	12	2.255	19.401
				86412	40	11 412	3.604	86484	36	11.517	9.782	86556	31	17.085	14 558	86628	12	2.958	19.132
				86413	13	14.020	3 755	86485	15	14.094	9.230	86557	19	20 633	14.565	86629	14	6.185	19.810
				86414	20	15 527	3.748	86486	14	20 170	9.007	86558	20	24.365	14.705	86630	10	6.965	19.222
				86415	42	19.570	3 908	86487	13	21.350	9.472	86559	24	0.212	15 044	86631	26	8.495	19.176
				86416	14	19.677	3.981	86488	16	0.672	10.690	86560	20	0 366	15 322	86632	18	8.576	19.844
				86417	14	20.601	3.348	86489	17	0.900	10.682	86561	24	2.149	15.622	86633	13	8.838	19.580
				86418	17	25.701	3.876	86490	20	3.280	10.474	86562	14	2.382	15.420	86634	13	8.850	19.440
				86419	25	0 820	4 690	86491	31	3.613	10 650	86563	15	2.623	15.532	86635	12	10.735	19.628
				86420	24	2.670	4.261	86492	13	3.680	10.155	86564	16	5.240	15.161	86636*	51	11.308	19.722
				86421	10	5.364	4.555	86493*	44	3.956	10.855	86565	40	7 246	15.745	86637	21	14.230	19.292
				86422	17	6.162	4.354	86494	20	10.165	10.548	86566	16	8.890	15 910	86638	20	14.536	19.535
				86423	15	7.170	4.373	86495	15	10.218	10.406	86567	33	10 696	15.968	86639	16	14.731	19.216
				86424	19	7 920	4.452	86496	18	12.122	10.922	86568	16	12.802	15.922	86640	19	15.760	19.440
				86425	11	8 617	4.120	86497	17	15.642	10.637	86569	13	18.042	15.948	86641*	40	18.959	19.890
				86426	20	9 834	4.975	86498	13	18.325	10.118	86570	13	19.970	15.292	86642*	145	20.505	19.743
				86427	18	13.016	4.362	86499	12	21.110	10.282	86571	34	20.539	15 200	86643	24	20.700	19.644
				86428	16	17.160	4.144	86500	25	21.934	10.507	86572	20	22 300	15 776	86644	25	23.840	19.518
				86429	19	19.960	4.010	86501	36	23.503	10.436	86573	16	22 370	15.746	86645	13	25.201	19.238
				86430	18	20 520	4 670	86502	24	23.822	10.044	86574	22	23.636	15.568	86646	23	25.988	19.692
				86431	12	24.420	4.240	86503	12	25.152	10.933	86575	40	24.750	15.920	86647	15	0.430	20.206
				86432	17	24.998	4.719	86504	16	4.246	11.700	86576	25	25.200	15.678	86648	40	0.650	20.512
				86433	19	25.412	4.818	86505	12	8.025	11.150	86577	15	0.222	16.406	86649	13	2 425	20.521
				86434	12	5.041	5.438	86506	26	8.050	11.985	86578	14	1.931	16.690	86650	15	3.892	20.950
				86435	32	10.726	5.944	86507	29	8.184	11.030	86579	18	2 882	16.284	86651	16	6.092	20.605
				86436	12	12.582	5.506	86508	25	9.750	11.325	86580	18	3.021	16.980	86652	11	6.819	20.768
				86437	37	12 603	5.288	86509	15	9.870	11.040	86581	16	3.838	16.766	86653	32	6.946	20.698
				86438	16	12.664	5.884	86510	20	10 306	11.611	86582	14	11.839	16.096	86654	40	10.334	20.292
				86439	40	18.845	5.022	86511	40	10.388	11.210	86583*	44	12.714	16.930	86655	40	12.496	20 184
				86440	37	20.936	5.558	86512	40	11.820	11.790	86584	16	14.790	16.985	86656	16	14.804	20.065
				86441	28	22.610	5.740	86513	26	13.135	11.375	86585	26	15.280	16.865	86657	15	15.838	20.549
				86442	13	1.124	6.910	86514*	56	17 120	11.571	86586	11	15.619	16.408	86658	12	18.744	20.260
				86443	15	4.690	6.698	86515	20	17.875	11.965	86587	34	16.200	16.702	86659	24	22.616	20.429
				86444	17	6 560	6.402	86516	40	20.858	11.918	86588	20	16.304	16.856	86660	15	24 537	20.435
				86445	24	7.208	6.602	86517	14	22.625	11.780	86589*	54	16.528	16.200	86661	12	25.100	20 408
				86446	21	8.122	6.458	86518*	45	22 898	11.465	86590	13	18.342	16.765	86662	25	2.648	21.355
				86447	28	9 582	6.304	86519	15	24.670	11.190	86591	13	18.822	16.809	86663*	46	2.830	21.442
				86448	14	14.372	6.006	86520	26	25.373	11.558	86592	11	18.868	16.266	86664	17	6.728	21.214
				86449	16	15.028	6.201	86521	10	25.808	11.394	86593	16	20.445	16.947	86665	21	8.476	21.425
				86450*	44	16 218	6.460	86522	20	25.960	11.434	86594	24	21.430	16.660	86666	36	8.812	21.074
				86451*	58	18.496	6.094	86523	15	0.608	12.970	86595	16	21.965	16.066	86667	13	11.218	21.652
				86452	20	19.244	6.899	86524	12	3.818	12.468	86596	23	23.250	16.322	86668	23	11.510	21.178
				86453	14	1.026	7.509	86525	20	5.132	12.506	86597	22	24.360	16.546	86669	13	12.029	21.608
				86454	12	2.002	7.338	86526	14	8.262	12 856	86598	13	0.161	17.804	86670	11	12.630	21.246
				86455	12	2.313	7.940	86527	25	13.315	12.135	86599	13	0.414	17.668	86671	14	15.136	21.722
				86456	12	5.862	7.872	86528	13	13.510	12.412	86600	15	1.282	17 326	86672	23	15.714	21.302
				86457	36	7.044	7.463	86529	15	13.582	12.516	86601	14	6.210	17.274	86673	12	18.588	21.371
				86458	18	7.380	7.892	86530	27	15.065	12.048	86602*	41	13.528	17.700	86674	22	19.562	21.778
				86459	15	7.766	7.882	86531	23	15.622	12.278	86603	19	18.161	17.938	86675	28	21.857	21.954
				86460*	40	11.310	7.015	86532	23	16.767	12.320	86604*	40	19.513	17.394	86676	24	25.354	21.08



86680	17	5°030	22°534	<div>R.A. 21<sup>h</sup> 8<sup>m</sup></div> <div>Plate 1845, 1921 Oct 24</div> <div>Provisional Constants</div> <div>A B C</div> <div>—01719 +01362 — 0978</div> <div>D E F</div> <div>—01355 — 01720 — 0310</div> <div>M<sub>ag</sub> = 16.4 — 1.05√<i>d</i></div>	86806	30	7°728	4°524	86878	32	1°638	10°502	86950	38	2°970	15°965
86681	27	5°914	22°915		86807	24	8°555	4°374	86879	23	1°953	10°104	86951	21	3°418	15°715
86682	20	7°026	22°784		86808	16	15°597	4°397	86880	15	3°298	10°972	86952	10	4°342	15°636
86683	15	9°875	22°100		86809	28	21°755	4°046	86881	23	7°025	10°660	86953	16	4°822	15°685
86684	25	11°359	22°976		86810	17	25°495	4°531	86882	15	7°445	10°740	86954	9	7°103	15°446
86685	15	14°742	22°432		86811	42	25°605	4°610	86883	14	9°160	10°488	86955	14	8°494	15°655
86686	14	16°244	22°010		86812	23	25°834	4°684	86884	26	9°702	10°690	86956	22	9°545	15°862
86687	22	20°002	22°185		86813	30	0°672	5°818	86885	20	10°444	10°402	86957	22	9°576	15°638
86688	26	21°040	22°228		86814	16	2°439	5°706	86886	18	12°094	10°596	86958	20	9°727	15°655
86689	20	25°801	22°130		86815	12	7°924	5°783	86887	18	12°350	10°804	86959	24	10°375	15°472
86690	17	3°520	23°070	86816	16	12°316	5°688	86888	22	14°200	10°855	86960	20	20°210	15°360	
86691	14	3°472	23°056	86817	23	15°611	5°776	86889	20	14°796	10°164	86961	23	21°394	15°740	
86692	15	5°588	23°842	86818	13	18°201	5°565	86890	14	16°632	10°404	86962	10	21°492	15°076	
86693*	50	6°342	23°830	86819	19	19°102	5°294	86891	14	17°172	10°246	86963	13	22°450	15°732	
86694	16	8°796	23°486	86820	22	19°163	5°384	86892	16	20°380	10°084	86964	20	24°914	15°894	
86695	30	9°720	23°514	86821	24	22°280	5°014	86893	20	23°181	10°260	86965	19	25°915	15°064	
86696	21	12°045	23°332	86822	24	22°800	5°770	86894*	41	1°049	11°540	86966	16	0°194	16°156	
86697	14	13°930	23°080	86823	25	25°406	5°986	86895	18	2°820	11°236	86967	21	1°482	16°391	
86698	15	15°141	23°837	86824	11	0°634	6°224	86896	22	3°528	11°593	86968	20	2°593	16°596	
86699	34	17°956	23°542	86825	23	6°267	6°484	86897	14	3°962	11°422	86969	20	4°348	16°834	
86700	20	19°922	23°299	86826	19	6°824	6°931	86898	21	4°114	11°462	86970	13	5°500	16°406	
86701	13	22°575	23°114	86827	16	8°665	6°046	86899	12	4°680	11°105	86971	14	7°060	16°598	
86702	24	23°611	23°335	86828	14	9°366	6°296	86900	26	5°498	11°936	86972	23	7°303	16°976	
86703	14	5°066	24°894	86829	14	9°595	6°326	86901	15	9°824	11°269	86973	16	8°696	16°120	
86704	14	5°523	24°458	86830	20	10°178	6°952	86902	22	11°714	11°734	86974	25	11°025	16°354	
86705	23	5°692	24°838	86831*	46	13°544	6°676	86903	18	12°879	11°071	86975	16	12°942	16°735	
86706	36	6°078	24°993	86832	18	13°956	6°724	86904	15	16°424	11°605	86976	21	13°284	16°396	
86707	21	6°198	24°028	86833	18	14°424	6°895	86905	15	17°830	11°125	86977	14	16°816	16°960	
86708	16	6°812	24°303	86834	28	14°787	6°766	86906	16	19°730	11°235	86978	19	17°244	16°705	
86709	19	7°536	24°610	86835*	60	16°292	6°458	86907	18	19°840	11°554	86979	16	17°380	16°774	
86710	19	8°088	24°865	86836	16	16°564	6°386	86908	15	20°558	11°635	86980	23	20°891	16°884	
86711	23	9°717	24°184	86837	21	19°754	6°201	86909	15	21°464	11°638	86981	20	22°756	16°750	
86712	40	11°405	24°330	86838	15	21°940	6°647	86910	19	22°427	11°436	86982	12	24°770	16°713	
86713	20	12°824	24°205	86839	18	3°304	7°565	86911	17	23°845	11°268	86983	21	1°080	17°262	
86714	36	13°090	24°956	86840	21	4°144	7°164	86912	26	24°254	11°144	86984	20	4°527	17°546	
86715	32	14°621	24°400	86841	22	8°212	7°764	86913	20	25°420	11°418	86985	17	4°826	17°404	
86716	13	14°756	24°210	86842	23	10°610	7°694	86914*	120	1°378	12°282	86986	20	5°088	17°338	
86717	14	15°654	24°645	86843	37	11°602	7°805	86915	33	4°729	12°276	86987	16	8°084	17°951	
86718	14	18°598	24°260	86844	11	11°622	7°814	86916	22	5°303	12°641	86988*	56	9°914	17°598	
86719	19	20°922	24°836	86845	12	14°344	7°816	86917	13	7°223	12°561	86989	17	13°584	17°968	
86720	40	24°520	24°338	86846	19	15°284	7°670	86918	35	10°347	12°183	86990	36	15°079	17°180	
86721	40	2°540	25°624	86847	14	15°778	7°084	86919	15	14°638	12°721	86991	30	20°800	17°944	
86722	44	7°648	25°956	86848	20	18°700	7°566	86920	21	14°995	12°283	86992	17	21°511	17°444	
86723	17	8°346	25°064	86849	30	19°644	7°881	86921	17	16°510	12°948	86993	16	24°736	17°733	
86724	14	8°515	25°438	86850*	58	21°054	7°651	86922	24	20°785	12°960	86994	22	1°313	18°748	
86725	40	8°956	25°885	86851*	74	0°535	8°036	86923	15	0°334	13°672	86995*	40	1°554	18°086	
86726	19	11°520	25°197	86852	14	5°164	8°532	86924	37	2°545	13°384	86996	17	2°006	18°990	
86727	35	12°464	25°534	86853	23	5°604	8°174	86925	24	4°885	13°241	86997	26	2°606	18°876	
86728	15	13°906	25°284	86854	26	5°702	8°214	86926	13	7°234	13°326	86998	23	3°894	18°106	
86729	20	15°378	25°396	86855	23	8°580	8°486	86927	16	7°324	13°654	86999	20	5°776	18°497	
86730	17	16°710	25°920	86856	24	12°563	8°495	86928	18	10°786	13°762	87000	23	11°312	18°365	
86731	44	18°721	25°370	86857	10	13°869	8°378	86929*	34	11°605	13°922	87001	24	12°633	18°866	
86732	18	19°730	25°232	86858	21	14°124	8°692	86930	18	12°578	13°259	87002	32	14°676	18°364	
86733	13	19°782	25°711	86859	14	14°180	8°185	86931	14	17°525	13°300	87003	20	17°365	18°994	
86734	12	19°829	25°558	86860	15	14°504	8°982	86932*	120	18°205	13°302	87004	14	18°022	18°571	
86735	67	20°630	25°524	86861	22	17°471	8°936	86933	14	18°650	13°066	87005	16	20°592	18°618	
86736	28	21°920	25°480	86862	19	18°268	8°367	86934	18	22°935	13°674	87006	16	23°214	18°082	
86737	38	22°760	25°692	86863	22	19°208	8°794	86935	20	2°570	14°755	87007	24	24°189	18°356	
				86792	22	15°555	3°629	86936	15	4°566	14°146	87008	23	2°122	19°576	
				86793	22	15°760	3°718	86937	17	5°602	14°174					



87022	10	19.231	19.718	87094	16	15.655	23.232	87171	16	1.499	1.583	87243	22	12.936	4.626	87315	8	5.832	8.502
87023	12	20.726	19.284	87095	19	22.919	23.037	87172	36	3.164	1.911	87244	15	14.692	4.912	87316	19	6.985	8.424
87024	18	25.015	19.305	87096	41	2.876	24.385	87173	21	3.164	1.707	87245	32	15.416	4.108	87317	8	10.835	8.862
87025*	37	25.650	19.774	87097	26	4.912	24.794	87174	15	3.370	1.496	87246	15	15.495	4.978	87318	8	10.920	8.776
87026	21	0.914	20.506	87098	20	6.716	24.264	87175	13	8.883	1.426	87247	9	19.442	4.883	87319	12	14.943	8.326
87027	15	2.634	20.468	87099	23	7.114	24.203	87176	9	9.280	1.277	87248	20	20.622	4.480	87320	34	15.453	8.333
87028	15	3.396	20.446	87100	35	10.940	24.834	87177	25	9.726	1.738	87249	8	23.628	4.937	87321	14	18.056	8.754
87029	15	4.348	20.646	87101	20	11.003	24.604	87178	30	10.173	1.864	87250	8	25.446	4.269	87322	22	19.416	8.868
87030	18	5.136	20.717	87102	14	17.251	24.456	87179	16	11.154	1.826	87251	27	3.328	5.012	87323	15	19.640	8.222
87031	15	8.256	20.200	87103	18	17.468	24.584	87180	11	12.750	1.843	87252	12	6.114	5.520	87324	10	19.647	8.716
87032	15	8.264	20.738	87104	17	17.824	24.805	87181	10	14.104	1.784	87253	27	7.410	5.772	87325	32	20.784	8.713
87033	22	9.968	20.330	87105	38	20.376	24.306	87182	9	14.152	1.282	87254	23	7.428	5.782	87326	11	21.278	8.644
87034*	38	11.180	20.815	87106	37	20.789	24.826	87183	12	15.688	1.824	87255	11	7.605	5.210	87327	21	23.365	8.849
87035	20	14.919	20.751	87107	15	21.106	24.706	87184	31	16.235	1.784	87256	33	8.012	5.130	87328	10	0.212	9.979
87036	22	15.981	20.375	87108	44	22.194	24.220	87185*	47	19.248	1.358	87257	23	10.001	5.801	87329	8	0.972	9.499
87037	21	16.146	20.928	87109*	62	23.606	24.482	87186*	39	20.717	1.093	87258	30	11.052	5.686	87330*	78	3.498	9.886
87038*	58	17.156	20.892	87110	12	23.916	24.202	87187	15	20.977	1.850	87259	16	12.483	5.689	87331	23	3.645	9.634
87039	21	19.852	20.036	87111	28	0.298	25.570	87188	10	21.969	1.388	87260*	37	13.556	5.067	87332	11	4.014	9.910
87040	19	19.976	20.504	87112	40	1.138	25.769	87189	8	2.662	2.352	87261	11	13.574	5.372	87333	12	4.098	9.466
87041	22	21.366	20.411	87113	44	5.442	25.500	87190	9	3.726	2.266	87262	16	13.776	5.248	87334	10	4.139	9.031
87042	13	22.174	20.226	87114	30	8.107	25.136	87191	24	4.380	2.507	87263	9	14.066	5.760	87335	13	4.224	9.853
87043	14	22.754	20.836	87115	21	8.232	25.194	87192*	45	4.670	2.776	87264	18	14.839	5.726	87336	13	4.350	9.715
87044*	40	23.828	20.416	87116	12	10.326	25.766	87193	10	5.417	2.396	87265	23	15.116	5.452	87337	9	9.961	9.373
87045	28	24.622	20.420	87117	12	14.739	25.223	87194	12	6.751	2.638	87266	23	15.134	5.440	87338	22	11.864	9.162
87046*	53	24.642	20.366	87118	18	15.232	25.988	87195	19	7.193	2.892	87267	23	15.146	5.016	87339	9	12.476	9.744
87047	23	3.660	21.115	87119	15	20.673	25.336	87196	12	7.462	2.572	87268	18	15.504	5.118	87340	26	16.394	9.146
87048	20	3.864	21.054	87120	33	23.264	25.415	87197	11	8.978	2.762	87269	10	16.153	5.599	87341	16	17.396	9.617
87049	14	4.956	21.666	87121	15	25.845	25.856	87198	11	10.111	2.024	87270	35	16.645	5.056	87342	9	17.614	9.250
87050	38	8.371	21.985					87199	20	10.817	2.714	87271	23	17.768	5.280	87343	21	18.167	9.272
87051	21	8.432	21.581					87200	15	12.398	2.964	87272	17	19.670	5.806	87344	15	18.940	9.896
87052	14	10.128	21.954					87201	9	13.836	2.130	87273	26	23.380	5.070	87345	21	21.800	9.878
87053	15	11.364	21.080					87202	12	16.318	2.917	87274	30	0.306	6.136	87346	14	24.232	9.792
87054	16	12.733	21.886					87203	29	16.756	2.708	87275	29	2.916	6.321	87347	12	25.581	9.684
87055	32	12.924	21.576					87204*	51	17.070	2.079	87276	33	4.358	6.586	87348	16	25.851	9.311
87056	12	14.750	21.566					87205	8	17.302	2.354	87277	21	9.113	6.456	87349	8	0.075	10.570
87057	11	15.136	21.954					87206	20	21.078	2.302	87278	14	9.812	6.576	87350	21	0.738	10.619
87058	14	15.416	21.266					87207	12	21.416	2.706	87279	22	10.752	6.533	87351*	40	4.126	10.354
87059	18	15.512	21.659					87208	14	23.022	2.590	87280	8	11.610	6.504	87352	26	4.716	10.718
87060	17	16.809	21.540					87209	11	24.592	2.097	87281	28	11.723	6.224	87353*	50	4.968	10.896
87061	33	21.684	21.448					87210	11	24.738	2.602	87282	33	11.874	6.866	87354	9	6.029	10.872
87062	15	22.093	21.727					87211*	54	0.274	3.533	87283	18	12.617	6.072	87355	9	6.441	10.695
87063	17	23.065	21.409					87212	16	0.932	3.730	87284	20	12.918	6.249	87356	14	7.420	10.973
87064	38	23.445	21.995					87213	14	2.200	3.988	87285	14	13.614	6.837	87357	19	7.995	10.822
87065	30	24.317	21.174					87214	12	4.289	3.363	87286	14	13.730	6.716	87358	9	8.776	10.108
87066	31	0.177	22.044					87215	17	4.850	3.734	87287	32	14.134	6.992	87359	13	10.510	10.424
87067	21	4.126	22.156					87216	12	5.216	3.376	87288	11	16.315	6.560	87360	20	11.520	10.352
87068	17	6.804	22.271					87217	12	7.186	3.306	87289	12	16.718	6.745	87361	29	11.888	10.673
87069	13	6.975	22.476					87218*	40	8.454	3.966	87290	15	17.017	6.666	87362	32	11.959	10.064
87070	21	8.072	22.738					87219	8	10.011	3.106	87291	8	18.452	6.711	87363	16	14.044	10.680
87071	23	9.349	22.316					87220	21	10.688	3.502	87292	16	19.833	6.164	87364	17	15.310	10.202
87072	25	11.100	22.415					87221	8	11.720	3.286	87293	13	20.994	6.954	87365	11	15.726	10.486
87073	13	13.213	22.621					87222	20	14.886	3.924	87294	14	21.988	6.202	87366	30	19.732	10.446
87074	22	13.400	22.966					87223	8	17.264	3.857	87295	27	23.197	6.056	87367	13	20.976	10.541
87075	38	14.454	22.486					87224	8	17.752	3.888	87296	17	23.554	6.004	87368*	41	21.016	10.436
87076	34	15.854	22.306					87225	19	18.074	3.933	87297	11	25.421	6.084	87369	17	21.873	10.351
87077	20	16.626	22.524					87226	8	18.415	3.781	87298	9	2.731	7.171	87370*	44	22.568	10.406
87078	21	17.140	22.197					87227*	47	19.478	3.405	87299*	47	5.302	7.165	87371	12	22.870	10.064
87079*	58	18.902	22.594					87228	18	20.556	3.913	87300	9	7.536	7.334	87372	8	24.130	10.648
87080	21	20.025	22.530					87229	9	22.176	3.727	87301	12	8.565	7.138	87373	49	25.619	10.849
87081	17	20.452	22.060					87230	16	2.330	4.398	87302	9	11.346	7.700	87374	38	25.628	10.869
87082	18	22.282	22.004					87231	20	2.990	4.862	87303	17	11.603	7.408	87375	14	0.909	11.062
87083	35	22.867	22.068					87232	37	3.093	4.944	87304	13	11.688	7.055	87376	19	1.413	11.621
87084	15	0.916	23.190					87233	18	3.957	4.131	87305	31	15.158	7.861	87377	33	1.820	11.491
87085	26	1.956	23.396					87234	14	4.074	4.818	87306	10	15.985	7.118	87378	24	2.990	11.752
87086	13	4.617	23.258					87235	13	6.560	4.622	87307	10	16.834	7.706	87379	9	4.094	11.172
87087	11	5.036	23.522					87236	29	7.138	4.738	87308	9	16.972	7.246	87380	13	4.226	11.778
87088	13	5.567	23.100					87237	10	8.424	4.612	87309	12	18.050	7.890	87381	9	5.703	11.338
87089	14	5.922	23.136	</															



87387	8	14.116	11.436	87459*	100	10.758	15.544	87531	13	25.270	18.418	87603	10	7.495	22.680	R.A. 21 <sup>h</sup> 24 <sup>m</sup> Plate 1839; 1921 Oct 5. Provisional Constants. A B C -0.1726 + 0.1278 - .4785 D E F -0.1287 -0.1750 -0.0315 Mag.=16.7-1.05√d
87388	12	14.330	11.014	87460	20	12.374	15.782	87532	21	25.591	18.051	87604	34	7.862	22.638	
87389	23	14.432	11.074	87461	32	13.666	15.594	87533	22	2.676	19.643	87605	45	8.044	22.684	
87390	11	15.078	11.880	87462	9	15.034	15.424	87534	10	3.504	19.076	87606	21	8.878	22.952	
87391	8	16.615	11.295	87463	20	16.052	15.882	87535	30	4.627	19.050	87607*	37	10.736	22.980	
87392	15	16.727	11.150	87464	26	16.120	15.260	87536	9	6.061	19.123	87608	13	11.580	22.899	
87393	9	18.734	11.958	87465*	92	19.312	15.856	87537	26	6.440	19.336	87609	17	13.264	22.545	
87394*	43	21.701	11.224	87466	18	21.500	15.018	87538	8	6.800	19.164	87610	23	16.074	22.882	
87395	12	21.834	11.400	87467	9	22.687	15.944	87539	11	11.283	19.224	87611	14	19.263	22.872	
87396	32	23.941	11.185	87468	23	25.304	15.142	87540	12	11.602	19.834	87612	19	0.622	23.399	
87397	15	2.576	12.004	87469	14	0.068	16.100	87541	21	13.324	19.008	87613	19	4.623	23.144	
87398	9	6.236	12.648	87470	21	2.534	16.232	87542	21	13.834	19.694	87614	28	6.935	23.738	
87399	18	8.906	12.133	87471	9	3.355	16.658	87543	31	17.509	19.342	87615	20	7.334	23.916	
87400*	45	11.372	12.928	87472	32	3.934	16.732	87544	16	20.138	19.080	87616	11	11.336	23.236	
87401	9	12.189	12.968	87473	20	6.334	16.199	87545	17	21.300	19.962	87617	26	12.539	23.053	
87402	31	12.879	12.518	87474	33	6.595	16.223	87546	11	22.360	19.806	87618	15	13.230	23.300	
87403	30	13.154	12.094	87475	9	8.726	16.746	87547	17	23.172	19.570	87619	38	13.239	23.934	
87404	12	13.526	12.600	87476	14	13.392	16.918	87548	8	23.250	19.472	87620	23	13.838	23.176	
87405	13	15.370	12.544	87477	13	13.859	16.690	87549*	46	1.494	20.766	87621	8	15.067	23.326	
87406	29	15.866	12.527	87478	10	15.632	16.317	87550	30	2.292	20.762	87622	32	16.114	23.866	
87407	19	16.663	12.540	87479	25	16.170	16.522	87551*	49	2.306	20.709	87623	11	16.584	23.360	
87408	10	18.048	12.226	87480	14	17.486	16.849	87552*	40	3.309	20.103	87624	9	20.914	23.600	
87409	26	18.906	12.476	87481	9	19.586	16.052	87553	9	3.962	20.772	87625	26	22.186	23.922	
87410	13	19.593	12.220	87482	9	19.954	16.610	87554*	45	5.405	20.995	87626*	43	23.572	23.738	
87411	11	20.502	12.268	87483	16	20.105	16.526	87555	21	5.466	20.634	87627	14	24.005	23.738	
87412	8	21.326	12.716	87484	21	20.420	16.972	87556	20	6.262	20.058	87628	8	25.938	23.908	
87413	19	22.124	12.053	87485	21	21.596	16.156	87557	26	6.366	20.180	87629	10	0.367	24.259	
87414	17	22.543	12.086	87486*	47	21.695	16.994	87558	13	6.914	20.135	87630*	56	1.316	24.834	
87415	16	23.686	12.991	87487	10	22.219	16.593	87559	18	7.376	20.841	87631	12	1.593	24.272	
87416	18	25.632	12.282	87488	29	23.134	16.215	87560	10	9.144	20.429	87632	12	1.634	24.550	
87417	14	25.760	12.080	87489	10	23.274	16.044	87561	14	10.263	20.834	87633	13	2.810	24.885	
87418	11	5.818	13.792	87490	14	23.730	16.964	87562	12	10.876	20.932	87634	33	4.407	24.106	
87419	36	6.074	13.476	87491	25	24.084	16.099	87563	12	11.040	20.132	87635	26	5.035	24.199	
87420	26	8.056	13.926	87492	11	24.113	16.192	87564	12	13.016	20.090	87636	9	6.300	24.900	
87421	18	8.246	13.031	87493	11	24.884	16.013	87565	10	14.274	20.815	87637	32	7.587	24.442	
87422	10	8.767	13.792	87494	20	0.386	17.113	87566	32	14.311	20.652	87638	13	7.669	24.594	
87423	8	12.880	13.536	87495	9	0.514	17.926	87567	18	15.864	20.038	87639	11	9.566	24.872	
87424*	39	13.007	13.708	87496	8	2.246	17.168	87568	16	17.800	20.750	87640	40	9.644	24.524	
87425	9	13.918	13.286	87497	13	2.402	17.052	87569	8	17.940	20.462	87641	8	9.912	24.076	
87426	9	15.389	13.693	87498	19	3.777	17.024	87570	11	18.234	20.278	87642	30	10.929	24.818	
87427	8	16.102	13.388	87499	8	4.545	17.240	87571	12	19.346	20.919	87643	11	13.029	24.151	
87428	31	16.200	13.254	87500	15	5.449	17.318	87572	15	20.608	20.478	87644	8	17.250	24.712	
87429	19	21.488	13.361	87501	24	6.410	17.199	87573	22	23.228	20.116	87645	26	17.554	24.826	
87430	18	22.294	13.180	87502	9	7.017	17.254	87574	9	24.364	20.570	87646	26	17.892	24.667	
87431	32	23.062	13.424	87503	16	7.384	17.240	87575	14	0.430	21.200	87647	9	19.729	24.744	
87432	17	24.140	13.921	87504	23	8.645	17.464	87576	19	0.748	21.770	87648	9	21.579	24.471	
87433*	41	24.816	13.298	87505	8	13.284	17.600	87577	29	1.994	21.518	87649	12	21.636	24.243	
87434	18	0.530	14.034	87506	43	14.130	17.452	87578	11	3.122	21.401	87650	14	23.518	24.408	
87435	14	1.864	14.276	87507	29	14.633	17.904	87579	15	4.460	21.910	87651	10	24.542	24.721	
87436	24	2.944	14.500	87508	20	15.300	17.268	87580	27	4.913	21.948	87652	24	25.271	24.202	
87437	28	3.200	14.589	87509	15	16.118	17.694	87581*	53	5.472	21.130	87653	10	0.009	25.237	
87438	25	5.054	14.890	87510	13	16.736	17.790	87582	10	5.726	21.604	87654	27	0.993	25.772	
87439	17	5.696	14.912	87511	9	18.512	17.660	87583	21	6.500	21.008	87655	15	1.277	25.754	
87440	12	8.890	14.209	87512	16	19.040	17.580	87584	26	8.914	21.543	87656	9	1.312	25.275	
87441	8	11.861	14.621	87513	8	19.138	17.320	87585	22	9.910	21.730	87657	22	6.014	25.632	
87442	18	13.956	14.256	87514	17	19.207	17.150	87586	27	10.882	21.306	87658	13	6.020	25.221	
87443*	45	14.074	14.088	87515	15	19.208	17.470	87587	10	11.087	21.296	87659	10	6.085	25.736	
87444	21	14.328	14.409	87516	9	23.440	17.272	87588	12	14.324	21.884	87660	11	11.050	25.612	
87445	17	15.656	14.896	87517	17	25.027	17.288	87589	11	14.797	21.626	87661	14	11.190	25.686	
87446	12	16.666	14.844	87518	60	25.404	17.623	87590	10	16.636	21.946	87662	23	11.244	25.192	
87447	18	17.540	14.637	87519	11	25.700	17.213	87591	10	19.786	21.138	87663	16	12.704	25.192	
87448	14	17.756	14.710	87520	18	0.859	18.438	87592	21	20.380	21.378	87664	9	14.400	25.268	
87449	12	17.832	14.337	87521	27	1.835	18.704	87593	15	20.748	21.600	87665	13	19.794	25.860	
87450	11	18.446	14.149	87522	19	2.380	18.072	87594	16	21.690	21.099	87666	8	20.870	25.123	
87451	24	18.794	14.368	87523	14	4.948	18.178	87595	13	24.152	21.836	87667	11	20.900	25.199	
87452	16	19.196	14.314	87524	13	6.386	18.218	87596	17	24.712	21.556	87668	44	21.504	25.324	
87453	20	22.444	14.792	87525	18	7.972	18.486	87597	15	24.931	21.550	87669	54	23.550	25.453	
87454	12	23.214	14.056	87526	17	8.500	18.533	87598	33	0.556	22.429	87670	20	24.559	25.051	
87455	11	24.066	14.614	87527	12	10.838	18.029	87599	8	1.022	22.401					
87456	22	3.526	15.390	87528	9	13.953	18.366	87600	11	1.098	22.550					
87457	32	3.674	15.793	87529	9	16.282	18.885	87601	40	1.131	22.351					
87458	13	8.328	15.397	87530	23	18.026	18.966	87602	17	3.617	22.017					

No	d	x	y
87701	31	6.910	0.196
87702*	56	10.836	0.542
87703	38	15.060	0.384
87704	39	16.372	0.240
87705	28	18.346	0.590
87706	28	21.290	0.153
87707	26	22.268	0.680
87708	15	22.714	0.304
87709	12	3.120	1.140
87710	20	11.410	1.001
8			



87756	11	21 370	7 016	87828	17	14 473	18 026	<div>R.A. 21<sup>h</sup> 32<sup>m</sup></div> <div>Plate 1847; 1921 Oct 26</div> <div>Provisional Constants</div> <div>A B C</div> <div>−01730 + 00688 −1268</div> <div>D E F</div> <div>−00692 −01750 −1000</div> <div>Magn.=15.7−1.05√d</div>	87956*	82	5 060	7 114	88028	15	0 430	19 646
87757	11	21 710	7 079	87829	18	16 268	18 694		87957	28	5 732	7 934	88029	30	17 324	19 128
87758	16	23 358	7 897	87830	40	17 081	18 410		87958	18	6 382	7 700	88030	10	2 701	20 798
87759*	62	6 470	8 479	87831	26	18 244	18 230		87959	21	7 728	7 369	88031	12	6 856	20 840
87760	19	15 185	8 810	87832	21	19 230	18 344		87960	12	21 551	7 100	88032	14	8 143	20 854
87761	22	18 995	8 308	87833	30	21 444	18 495		87961	33	6 170	8 683	88033	10	16 620	20 388
87762	12	20 568	8 916	87834	28	21 907	18 252		87962	15	12 810	8 976	88034	28	18 756	20 465
87763	16	21 544	8 028	87835	29	23 688	18 010		87963	14	13 694	8 082	88035	16	20 774	20 049
87764*	62	6 530	9 142	87836	21	24 250	18 676		87964*	34	19 248	8 721	88036*	45	1 201	21 184
87765	31	8 738	9 420	87837	30	25 398	18 240		87965*	39	0 136	9 524	88037*	38	2 708	21 342
87766	24	12 610	9 442	87838	29	8 089	19 485	87966*	66	5 246	9 075	88038	12	11 762	21 007	
87767*	55	21 910	9 295	87839	17	15 148	19 428	87967	26	5 628	9 698	88039	15	14 741	21 154	
87768	12	22 646	9 113	87840	16	16 206	19 184	87968	10	6 904	9 400	88040	10	16 262	21 489	
87769	14	24 816	9 475	87841	10	17 098	19 644	87969	14	15 090	9 718	88041	35	20 808	21 039	
87770*	40	0 540	10 624	87842	11	19 354	19 100	87970	14	15 764	9 904	88042	33	23 516	21 440	
87771	16	13 244	10 552	87843	23	20 840	19 306	87971	10	17 375	9 541	88043	22	24 614	21 260	
87772	20	14 676	10 646	87844	27	21 207	19 756	87972	33	2 745	10 384	88044	10	0 840	22 959	
87773	35	19 650	10 275	87845	13	22 113	19 945	87973	30	5 773	10 299	88045*	34	4 907	22 082	
87774*	51	20 600	10 436	87846	26	22 130	19 420	87974	34	8 098	10 554	88046	25	12 888	22 580	
87775	13	21 745	10 590	87847	13	5 300	20 393	87975	31	22 682	10 072	88047	31	5 756	23 896	
87776	42	24 513	10 170	87848*	80	5 920	20 100	87976	12	4 906	11 061	88048	17	8 464	23 487	
87777	29	1 920	11 384	87849	26	7 693	20 927	87977*	37	5 118	11 359	88049*	41	10 289	23 806	
87778*	56	3 590	11 028	87850	14	9 029	20 351	87978*	37	8 634	11 122	88050	34	10 648	23 062	
87779	31	3 604	11 050	87851	14	17 128	20 818	87979*	44	12 677	11 176	88051	10	11 264	23 611	
87780	16	17 022	11 610	87852*	61	22 896	20 962	87980	23	17 278	11 050	88052	30	16 158	23 898	
87781	17	18 468	11 090	87853	19	24 394	20 586	87981	10	19 611	11 378	88053	12	25 189	23 544	
87782	27	19 973	11 654	87854	10	24 522	20 946	87982	11	12 686	12 634	88054	14	6 500	24 596	
87783	14	20 568	11 211	87855	12	5 300	21 041	87983	14	12 828	12 655	88055	19	7 968	24 458	
87784	22	20 623	11 465	87856	13	8 162	21 292	87984	19	15 958	12 174	88056	29	17 198	24 391	
87785	15	23 664	11 535	87857	14	8 374	21 046	87985	10	22 564	12 070	88057	20	18 755	24 040	
87786	14	17 020	12 933	87858	13	8 698	21 154	87986	10	23 342	12 574	88058	11	19 310	24 452	
87787*	48	17 787	12 625	87859	32	11 461	21 058	87987*	34	23 731	12 681	88059	12	19 730	24 122	
87788	17	23 524	12 610	87860	14	18 537	21 745	87988	35	4 645	13 504	88060	28	20 281	24 640	
87789	20	25 024	12 450	87861	30	21 514	21 026	87989	10	6 130	13 630	88061	38	1 767	25 758	
87790	25	1 072	13 635	87862*	47	24 400	21 130	87990	10	6 158	13 123	88062	20	20 035	25 212	
87791*	39	2 822	13 487	87863	20	5 661	22 756	87991	15	7 058	13 842	88063	16	20 467	25 646	
87792*	27	13 020	13 032	87864	32	18 474	22 632	87992*	38	0 544	14 114	88064	40	23 500	25 724	
87793	43	14 759	13 874	87865	14	19 833	22 509	87993	33	10 233	14 600	<div>R.A. 21<sup>h</sup> 40<sup>m</sup></div> <div>Plate 1849; 1921 Oct. 28.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>−01759 + 00880 −1160</div> <div>D E F</div> <div>−00895 −01734 −0830</div> <div>Magn.=17.0−1.05√d</div>				
87794	33	19 950	13 055	87866	28	19 941	22 108	87994	14	12 614	14 755					
87795	29	21 381	13 225	87867	20	20 620	22 784	87995	10	13 052	14 406					
87796*	57	22 285	13 886	87868	26	22 517	22 733	87996	18	17 351	14 092					
87797	32	5 434	14 534	87869	22	22 630	22 856	87997	32	18 441	14 050					
87798	13	9 508	14 665	87870*	41	1 712	23 942	87998	11	21 332	14 130					
87799	30	14 392	14 784	87871	10	9 230	23 431	87999	29	3 632	15 686					
87800	14	16 420	14 518	87872	13	17 647	23 322	88000	12	4 074	15 024					
87801	12	19 350	14 956	87873	27	20 216	23 893	88001	12	6 119	15 132					
87802	14	21 355	14 838	87874	24	21 476	23 640	88002	11	6 382	15 134					
87803	13	21 775	14 637	87875	17	0 334	24 144	88003	13	8 461	15 924					
87804	23	25 810	14 824	87876	25	3 424	24 384	88004	19	13 628	15 484					
87805	17	23 048	15 460	87877	18	4 766	24 725	88005	12	17 271	15 058					
87806	14	25 300	15 062	87878	15	7 388	24 874	88006	29	19 512	15 200					
87807	32	25 361	15 480	87879	14	13 240	24 235	88007	14	22 316	15 780					
87808	33	6 734	16 760	87880	33	15 989	24 368	88008	10	25 650	15 907					
87809	27	8 576	16 392	87881	16	21 688	24 016	88009	14	12 882	16 556					
87810	32	11 429	16 170	87882	25	24 224	24 160	88010	15	18 750	16 680					
87811	13	11 611	16 784	87883	57	1 710	25 658	88011	31	19 853	16 982					
87812	11	11 622	16 944	87884	27	8 374	25 736	88012	10	23 429	16 927					
87813	11	15 978	16 108	87885	14	9 325	25 964	88013	23	12 109	17 564					
87814	12	19 801	16 906	87886	38	10 460	25 438	88014	12	14 848	17 548					
87815	22	22 816	16 812	87887	18	14 740	25 154	88015	13	19 638	17 594					
87816	10	25 851	16 590	87888	29	14 977	25 721	88016	28	21 760	17 459					
87817*	68	3 462	17 805	87889	14	18 498	25 076	88017	29	23 135	17 318					
87818	19	4 820	17 170	87890	18	21 266	25 015	88018	15	0 196	18 482					
87819	13	4 897	17 205	87891	15	22 270	25 630	88019	18	1 076	18 230					
87820	17	20 011	17 318	87892	49	23 431	25 541	88020	10	2 544	18 889					
87821	14	20 110	17 596					88021	26	3 686	18 447					
87822*	57	20 127	17 176					88022	14	7 520	18 047					
87823	19	24 606	17 260					88023*	39	7 826	18 772					
87824	17	3 663	18 230					88024*	34	11 440	18 354					
87825	15	6 759	18 722					88025	29	17 965	18 384					
87826	14	10 462	18 170					88026	34	21 652	18 592					
87827	22	10 842	18 842					88027	23	24 196	18 512					



88114	25	8.542	1.915	88186	10	11.342	6.608	88258	11	2.928	12.634	88330	22	7.974	17.724	88402	22	5.757	22.172
88115	50	10.214	1.468	88187	11	12.080	6.235	88259	14	10.870	12.347	88331	15	8.734	17.942	88403	25	8.064	22.100
88116	26	12.730	1.533	88188	26	13.180	6.375	88260	19	14.900	12.992	88332	25	11.268	17.220	88404	14	8.695	22.256
88117	26	17.025	1.650	88189	12	16.958	6.722	88261	19	16.580	12.980	88333	29	11.326	17.710	88405	16	15.134	22.240
88118	25	17.198	1.985	88190	16	20.075	6.160	88262*	55	17.042	12.355	88334	10	13.020	17.806	88406	24	17.564	22.800
88119	43	17.960	1.526	88191	16	20.083	6.150	88263	12	20.016	12.678	88335	28	13.142	17.440	88407*	37	18.936	22.120
88120*	75	18.506	1.222	88192	30	24.235	6.020	88264	17	22.375	12.332	88336	43	13.624	17.056	88408	26	22.228	22.439
88121	28	20.393	1.694	88193	23	1.974	7.814	88265*	46	23.981	12.206	88337	11	16.558	17.575	88409	12	22.274	22.470
88122	13	0.108	2.053	88194	16	7.936	7.952	88266	23	25.740	12.935	88338	23	18.057	17.074	88410	29	24.976	22.812
88123	41	0.511	2.448	88195	34	9.462	7.195	88267	16	2.932	13.700	88339	26	18.294	17.881	88411	21	2.032	23.758
88124	15	1.878	2.154	88196	22	10.140	7.188	88268	12	4.485	13.374	88340	24	18.499	17.924	88412	28	3.366	23.689
88125	11	4.744	2.808	88197	14	10.250	7.607	88269	22	5.592	13.046	88341	15	21.126	17.636	88413	18	9.010	23.057
88126	15	8.499	2.704	88198*	53	11.300	7.546	88270	10	5.887	13.847	88342	17	21.630	17.464	88414	12	10.461	23.159
88127	28	8.522	2.506	88199	12	12.634	7.336	88271	10	7.256	13.321	88343	28	21.857	17.462	88415	10	13.476	23.460
88128	17	9.452	2.004	88200	28	16.635	7.777	88272	10	10.134	13.740	88344	10	22.992	17.616	88416	10	14.714	23.759
88129	14	11.776	2.669	88201	39	16.954	7.670	88273	26	10.774	13.590	88345	10	0.440	18.334	88417	32	15.112	23.534
88130	35	12.647	2.227	88202	21	17.466	7.395	88274	10	11.150	13.448	88346	13	0.870	18.294	88418	11	15.907	23.214
88131	31	14.090	2.996	88203	12	17.635	7.890	88275	18	14.476	13.800	88347	23	1.964	18.281	88419	20	16.715	23.400
88132	32	15.716	2.228	88204*	51	22.310	7.960	88276	26	16.118	13.696	88348	32	2.296	18.672	88420	16	17.156	23.028
88133	11	15.792	2.154	88205	15	25.597	7.426	88277	12	16.862	13.487	88349	10	7.545	18.227	88421	11	25.396	23.114
88134	10	16.809	2.159	88206	10	1.590	8.438	88278	15	17.555	13.086	88350	12	8.507	18.500	88422	13	0.956	24.538
88135	10	17.647	2.492	88207	30	6.095	8.035	88279	14	18.882	13.244	88351	27	9.408	18.398	88423	11	9.684	24.478
88136	21	21.490	2.502	88208	24	6.124	8.624	88280	16	20.572	13.584	88352	10	10.018	18.249	88424	14	12.266	24.530
88137*	47	21.882	2.228	88209	11	6.693	8.640	88281	11	21.827	13.464	88353	34	22.087	18.979	88425	11	12.321	24.631
88138	16	22.890	2.083	88210	27	11.000	8.857	88282	14	23.584	13.914	88354	9	22.710	18.385	88426	36	12.518	24.590
88139	14	25.650	2.620	88211	15	13.380	8.214	88283	26	24.156	13.266	88355	21	23.053	18.425	88427	16	13.104	24.900
88140	14	0.638	3.492	88212	27	17.375	8.536	88284	14	3.109	14.367	88356	13	24.010	18.154	88428	26	14.785	24.802
88141*	67	2.104	3.991	88213	17	18.936	8.978	88285	31	4.240	14.292	88357	28	24.838	18.467	88429	27	14.846	24.756
88142	21	4.152	3.810	88214	36	19.634	8.998	88286	23	4.964	14.644	88358	23	25.400	18.610	88430	32	15.166	24.664
88143*	46	5.612	3.072	88215	25	19.890	8.844	88287	26	5.130	14.231	88359	15	3.186	19.690	88431	34	17.390	24.684
88144	46	6.130	3.127	88216	14	21.244	8.290	88288	14	6.378	14.156	88360	13	6.352	19.435	88432	11	19.174	24.332
88145	25	9.917	3.037	88217	10	24.992	8.150	88289	14	9.778	14.752	88361	27	7.642	19.296	88433	28	22.364	24.683
88146	40	10.650	3.790	88218	11	25.166	8.834	88290	10	10.108	14.190	88362	29	10.226	19.930	88434	13	24.870	24.929
88147	36	11.226	3.556	88219	19	4.394	9.489	88291	15	10.668	14.520	88363	10	11.456	19.520	88435	13	0.320	25.090
88148	45	13.716	3.400	88220	32	5.723	9.256	88292	18	10.829	14.697	88364	25	11.519	19.929	88436	66	1.703	25.898
88149	29	14.206	3.576	88221	14	6.414	9.786	88293	17	14.574	14.805	88365	16	13.260	19.862	88437	13	3.380	25.577
88150	40	16.305	3.836	88222	31	7.414	9.613	88294	34	14.768	14.858	88366	12	14.582	19.361	88438	14	6.472	25.380
88151	20	17.727	3.116	88223	18	8.656	9.120	88295	33	15.782	14.480	88367	11	15.000	19.242	88439	35	8.522	25.764
88152	10	19.436	3.821	88224	16	9.913	9.370	88296	10	18.765	14.500	88368	10	20.972	19.945	88440	10	10.380	25.870
88153	13	22.973	3.352	88225	14	12.674	9.914	88297	14	19.304	14.695	88369	33	21.540	19.294	88441	11	12.084	25.558
88154	33	24.912	3.810	88226	12	15.327	9.904	88298	9	21.938	14.818	88370	19	21.590	19.900	88442	10	13.752	25.010
88155	13	2.760	4.600	88227	28	16.915	9.748	88299	32	24.624	14.620	88371	29	5.190	20.219	88443	14	15.770	25.330
88156	14	4.060	4.878	88228	26	19.076	9.995	88300	29	0.377	15.967	88372	9	7.820	20.950	88444	54	16.952	25.770
88157	44	6.231	4.038	88229	16	21.452	9.495	88301*	49	8.065	15.234	88373	10	9.960	20.276	88445	23	20.550	25.114
88158	22	7.746	4.687	88230	28	24.023	9.959	88302	13	10.860	15.496	88374	14	10.057	20.114	88446	47	20.650	25.893
88159	11	7.957	4.638	88231	38	0.658	10.251	88303	26	14.028	15.850	88375	16	11.486	20.725	88447	10	22.766	25.063
88160	19	8.092	4.090	88232	15	5.774	10.890	88304	11	14.774	15.648	88376	45	11.722	20.670				
88161	21	8.414	4.871	88233	21	6.184	10.926	88305	12	16.046	15.492	88377	27	12.160	20.310				
88162	10	13.350	4.198	88234	20	8.128	10.798	88306	26	18.116	15.186	88378	26	13.688	20.311				
88163	22	16.726	4.083	88235	14	9.037	10.915	88307*	58	18.120	15.200	88379	33	16.497	20.096				
88164	17	17.322	4.880	88236	15	10.548	10.210	88308	11	18.383	15.358	88380	9	16.906	20.959				
88165	18	22.084	4.790	88237	29	14.813	10.242	88309	15	20.726	15.430	88381	24	17.814	20.304				
88166	19	23.667	4.640	88238	19	17.650	10.673	88310	17	22.934	15.658	88382	31	17.946	20.188				
88167	13	25.375	4.412	88239	31	19.326	10.566	88311	15	23.884	15.704	88383	32	18.656	20.246				
88168	12	25.937	4.336	88240	26	19.364	10.548	88312	38	24.702	15.314	88384	12	1.486	21.064				
88169	10	0.891	5.407	88241	15	1.805	11.374	88313	25	3.715	16.044	88385	43	1.659	21.610				
88170	18	3.136	5.930	88242*	70	5.560	11.105	88314*	48	5.268	16.798	88386	35	2.755	21.412				
88171	16	3.348	5.052	88243	11	8.036	11.046	88315	15	5.846	16.914	88387	10	2.948	21.869				
88172	41	7.312	5.860	88244	11	8.273	11.156	88316	11	8.568	16.414	88388	43	5.409	21.690				
88173	22	7.354	5.182	88245	33	9.562	11.940	88317	37	9.494	16.810	88389	14	6.800	21.076				
88174	14	8.006	5.600	88246	32	12.176	11.880	88318*	43	9.706	16.754	88390	21	7.464	21.556				
88175*	62	8.475	5.500	88247	11	12.232	11.073	88319	14	13.040	16.504	88391	34	7.854	21.270				
88176	30	9.349	5.252	88248	10	16.198	11.856	88320	21	13.630	16.724	88392*	46	10.446	21.206				
88177	19	11.403	5.684	88249	10	18.648	11.330	88321	18	13.886	16.605	88393	27	11.675	21.219				
88178	32	12.340	5.770	88250	10	18.791													



88456	12	16.460	0.176	88528*	35	20.954	6.580	88600	19	25.342	11.506	88672	23	21.502	17.190	88744	28	21.820	22.130
88457	21	18.252	0.104	88529	10	22.741	6.822	88601	16	0.333	12.494	88673	33	23.854	17.388	88745	28	21.862	22.710
88458	28	20.430	0.061	88530	10	2.659	7.634	88602	34	1.861	12.070	88674	21	1.094	18.578	88746	29	22.638	22.221
88459	10	20.954	0.894	88531	14	3.488	7.544	88603*	39	1.934	12.345	88675	12	2.048	18.292	88747	39	23.808	22.854
88460	20	22.234	0.600	88532	22	5.374	7.276	88604	20	4.785	12.735	88676	27	2.878	18.594	88748	27	25.062	22.159
88461	12	23.506	0.117	88533	34	7.459	7.841	88605*	69	5.214	12.702	88677	22	3.442	18.728	88749	20	25.761	22.706
88462	10	6.148	1.642	88534	22	9.484	7.510	88606	25	5.325	12.792	88678	21	5.458	18.199	88750	12	3.504	23.230
88463	15	6.532	1.795	88535	17	10.480	7.551	88607	18	7.100	12.488	88679	14	6.109	18.270	88751	11	4.115	23.270
88464	34	13.042	1.346	88536	12	10.984	7.824	88608	18	8.019	12.344	88680	25	9.198	18.314	88752	16	5.496	23.662
88465	30	13.484	1.630	88537	16	11.645	7.968	88609	12	8.099	12.620	88681	14	9.592	18.821	88753	23	5.988	23.052
88466*	44	17.520	1.998	88538	39	18.785	7.240	88610	37	18.500	12.808	88682	10	12.598	18.964	88754	18	6.785	23.656
88467	30	22.825	1.651	88539	16	20.442	7.208	88611	10	18.712	12.328	88683	21	15.148	18.900	88755	14	6.991	23.961
88468	18	25.200	1.037	88540	10	21.910	7.714	88612	27	19.080	12.222	88684	20	17.124	18.338	88756	21	8.435	23.000
88469	12	0.710	2.238	88541	17	24.519	7.886	88613*	37	21.090	12.540	88685	11	18.962	18.585	88757	12	10.634	23.316
88470	16	3.478	2.736	88542	15	24.832	7.835	88614	10	1.938	13.164	88686	9	20.860	18.214	88758	22	11.490	23.610
88471	37	4.258	2.943	88543*	43	0.204	8.124	88615	24	2.126	13.402	88687	30	21.258	18.398	88759	24	13.045	23.779
88472	27	5.125	2.360	88544	10	0.418	8.054	88616	21	3.706	13.050	88688	12	21.602	18.718	88760	22	18.726	23.018
88473	14	5.589	2.968	88545	12	2.895	8.276	88617	21	4.306	13.790	88689	12	22.240	18.690	88761	33	23.760	23.312
88474	23	6.900	2.050	88546	12	3.075	8.956	88618	20	6.839	13.232	88690	25	23.330	18.255	88762	28	26.000	23.770
88475	20	7.068	2.151	88547*	45	5.436	8.550	88619	22	10.196	13.860	88691	11	24.224	18.501	88763	26	0.494	24.842
88476	31	8.352	2.704	88548	14	8.379	8.471	88620	21	11.693	13.392	88692	13	25.549	18.880	88764	25	4.249	24.726
88477	23	10.780	2.644	88549	20	9.034	8.708	88621	26	15.928	13.214	88693	33	0.134	19.142	88765	16	5.103	24.931
88478	24	10.938	2.894	88550	17	9.110	8.358	88622	22	17.884	13.708	88694	10	4.200	19.604	88766	17	7.218	24.069
88479	24	10.951	2.024	88551	28	12.678	8.315	88623	12	18.620	13.158	88695	17	6.300	19.498	88767	17	8.639	24.484
88480	34	12.019	2.494	88552	25	12.869	8.300	88624	15	19.149	13.788	88696	16	8.675	19.898	88768	10	9.053	24.678
88481	20	16.127	2.989	88553	16	14.844	8.442	88625	20	23.692	13.099	88697	11	10.684	19.664	88769	10	10.250	24.328
88482	15	19.746	2.266	88554	34	15.215	8.080	88626	26	25.638	13.798	88698	14	13.432	19.301	88770	9	12.518	24.695
88483*	41	20.704	2.171	88555	28	15.414	8.838	88627	13	1.563	14.060	88699	24	14.970	19.898	88771	13	15.387	24.052
88484	13	0.810	3.506	88556	18	17.813	8.512	88628	28	2.611	14.750	88700	28	18.359	19.510	88772	34	16.584	24.969
88485	29	2.753	3.936	88557	13	18.446	8.549	88629	12	6.137	14.701	88701*	47	18.472	19.698	88773	20	16.785	24.530
88486	14	15.030	3.458	88558	14	21.033	8.470	88630	16	7.394	14.832	88702	10	18.570	19.782	88774	15	18.245	24.587
88487	15	18.512	3.811	88559	11	6.601	9.171	88631	29	7.987	14.503	88703	16	21.468	19.142	88775	11	18.835	24.387
88488	16	19.185	3.120	88560	14	6.776	9.909	88632	32	8.638	14.666	88704	13	22.604	19.934	88776	12	24.610	24.990
88489	10	20.508	3.970	88561	12	7.113	9.292	88633	12	8.826	14.456	88705	14	22.820	19.439	88777	11	6.386	25.717
88490	10	22.378	3.312	88562	16	7.628	9.524	88634	22	12.646	14.986	88706*	35	23.608	19.456	88778	17	7.024	25.482
88491	19	1.521	4.786	88563	19	12.872	9.629	88635	35	14.031	14.812	88707*	41	23.652	19.764	88779	17	18.329	25.968
88492	10	2.414	4.400	88564	13	13.812	9.082	88636	17	14.348	14.310	88708	10	1.541	20.562	88780	12	19.109	25.718
88493	14	3.228	4.531	88565	22	14.155	9.502	88637	28	15.760	14.298	88709	10	2.332	20.060	88781	11	20.350	25.519
88494	17	3.788	4.449	88566	33	15.601	9.974	88638	17	18.888	14.779	88710	10	2.400	20.778				
88495	18	4.688	4.322	88567	21	17.328	9.491	88639	32	21.010	14.721	88711	10	2.565	20.578				
88496	14	6.116	4.172	88568	25	17.914	9.100	88640	17	22.361	14.942	88712	31	6.652	20.072				
88497*	43	6.315	4.581	88569	34	24.706	9.244	88641	10	23.846	14.905	88713	10	7.631	20.715				
88498	12	8.010	4.471	88570	13	0.290	10.442	88642	36	25.793	14.951	88714*	35	7.996	20.950				
88499*	38	9.945	4.079	88571	24	1.946	10.098	88643	21	0.937	15.811	88715	34	14.084	20.054				
88500	34	10.622	4.300	88572	16	6.140	10.284	88644	14	1.887	15.846	88716	11	15.940	20.602				
88501	15	11.478	4.280	88573	11	7.070	10.198	88645	35	2.698	15.444	88717	10	18.856	20.281				
88502	22	12.939	4.550	88574	27	7.204	10.259	88646	13	4.804	15.415	88718	19	19.438	20.610				
88503	14	16.219	4.849	88575	15	9.692	10.556	88647	25	4.913	15.100	88719	9	21.325	20.198				
88504	10	19.125	4.232	88576	31	11.070	10.336	88648	28	5.140	15.200	88720	21	21.328	20.672				
88505	23	23.231	4.856	88577	25	13.235	10.100	88649	18	8.743	15.240	88721	20	1.268	21.276				
88506	10	3.706	5.818	88578	33	14.690	10.251	88650	25	13.240	15.831	88722	10	3.731	21.581				
88507	23	7.150	5.366	88579	32	14.804	10.222	88651	10	17.613	15.788	88723*	42	3.898	21.400				
88508	22	9.652	5.702	88580	10	15.076	10.304	88652	24	20.204	15.175	88724	22	6.460	21.280				
88509	18	10.333	5.924	88581	36	15.258	10.552	88653	17	20.210	15.062	88725	11	7.430	21.902				
88510	32	17.926	5.168	88582	22	17.316	10.837	88654	10	20.864	15.310	88726	12	7.718	21.401				
88511	26	18.686	5.434	88583	10	19.640	10.158	88655*	36	21.050	15.280	88727	33	8.168	21.374				
88512	17	24.970	5.245	88584	11	1.850	11.872	88656	10	22.062	15.119	88728	11	9.708	21.467				
88513	12	25.030	5.344	88585*	42	2.506	11.996	88657	23	24.910	15.845	88729	15	11.811	21.096				
88514	29	2.105	6.158	88586	13	4.300	11.078	88658	28	5.048	16.821	88730	12	12.346	21.826				
88515	12	8.053	6.538	88587	19	4.400	11.260	88659	22	5.222	16.481	88731	18	15.680	21.390				
88516	24	10.718	6.668	88588	37	4.597	11.960	88660	33	6.778	16.383	88732	17	19.408	21.266				
88517*	39	10.733	6.520	88589	34	5.275	11.845	88661	10	9.606	16.221	88733	14	19.934	21.770				
88518	24	11.252	6.050	88590	10	5.585	11.660	88662	13	15.955	16.887	88734	19	25.547	21.080				
88519	16	11.620	6.565	88591	21	7.050	11.558	88663	15	17.617	16.952	88735	18	0.325	22.600				
88520*	49	13.267	6.391	88592	13	9.598	11.870	88664	19	7.343	17.158	88736	11	0.372	22.629				
88521	34	13.282	6.390	88593	10	18.150	11.369	88665	10										



88811	38	16.358	0.093	88883	28	25.336	7.364	88955	14	0.245	15.373	89027	11	6.800	22.425	89113	16	16.086	1.255
88812	14	16.680	0.124	88884	15	2.274	8.277	88956	53	3.675	15.322	89028	11	14.903	22.734	89114	42	16.268	1.288
88813	15	23.832	0.760	88885	16	2.586	8.222	88957	44	9.246	15.470	89029	16	16.580	22.796	89115	20	16.424	1.306
88814	42	25.370	0.363	88886	14	4.790	8.236	88958	14	10.174	15.466	89030	18	16.747	22.678	89116	38	18.120	1.246
88815	28	2.832	1.416	88887	19	6.368	8.278	88959	46	12.899	15.110	89031	14	17.330	22.387	89117	26	19.340	1.416
88816	60	4.971	1.994	88888	12	8.297	8.524	88960	13	14.112	15.564	89032	27	22.518	22.292	89118	18	22.542	1.137
88817	20	6.442	1.031	88889	24	16.681	8.652	88961	13	14.275	15.680	89033	43	1.800	23.719	89119	54	23.455	1.760
88818	39	6.673	1.020	88890	12	19.960	8.634	88962	14	18.640	15.610	89034	53	1.835	23.259	89120	40	5.024	2.288
88819	12	7.916	1.400	88891	14	20.360	8.155	88963	40	21.600	15.430	89035	27	3.792	23.074	89121	19	6.680	2.917
88820	14	14.290	1.312	88892	20	24.700	8.042	88964	20	2.812	16.227	89036	16	4.275	23.826	89122	32	7.224	2.376
88821	37	15.588	1.490	88893	40	2.482	9.635	88965	43	7.876	16.454	89037	18	5.006	23.236	89123	15	7.744	2.053
88822	40	17.280	1.143	88894	23	4.632	9.498	88966	60	9.794	16.206	89038	11	5.827	23.190	89124	18	9.244	2.229
88823	17	19.230	1.243	88895	15	5.392	9.200	88967	42	10.900	16.350	89039	30	6.714	23.898	89125	20	9.686	2.905
88824	21	20.730	1.404	88896	15	5.630	9.360	88968	28	11.013	16.413	89040	44	13.156	23.492	89126	29	13.784	2.735
88825	13	24.842	1.087	88897	40	5.850	9.876	88969	36	12.782	16.395	89041	10	13.702	23.548	89127	12	20.114	2.414
88826	44	0.464	2.076	88898	17	9.874	9.242	88970	18	13.722	16.196	89042	20	14.730	23.400	89128	16	21.748	2.586
88827	28	6.870	2.306	88899	28	15.000	9.525	88971	14	14.901	16.030	89043	24	15.098	23.990	89129	44	22.400	2.300
88828	10	7.350	2.683	88900	12	15.319	9.947	88972	13	17.438	16.709	89044	42	15.450	23.474	89130	16	5.224	3.590
88829	41	15.262	2.374	88901	10	15.600	9.702	88973	40	1.782	17.792	89045	25	15.551	23.577	89131	16	5.870	3.966
88830	18	18.510	2.151	88902	24	20.044	9.298	88974	16	8.188	17.032	89046	38	15.800	23.323	89132	44	7.600	3.134
88831	18	4.028	3.743	88903	15	24.646	9.032	88975	19	8.910	17.805	89047	22	16.621	23.506	89133	17	7.834	3.848
88832	14	4.235	3.685	88904	40	7.785	10.404	88976	47	11.410	17.683	89048	16	19.540	23.411	89134	11	9.655	3.955
88833	55	6.311	3.584	88905	14	7.794	10.350	88977	40	21.236	17.862	89049	28	21.984	23.546	89135	14	10.854	3.374
88834	15	10.480	3.896	88906	14	7.932	10.742	88978	28	21.410	17.616	89050	43	4.048	24.136	89136	17	11.495	3.236
88835	17	13.294	3.198	88907	33	9.272	10.814	88979	21	1.276	18.666	89051	20	8.754	24.525	89137	18	19.521	3.824
88836	18	16.500	3.428	88908	38	10.040	10.194	88980	24	6.966	18.376	89052	29	10.605	24.790	89138	15	20.174	3.776
88837	19	18.868	3.190	88909	56	10.814	10.587	88981	15	7.220	18.754	89053	32	14.612	24.072	89139	40	21.640	3.083
88838	19	24.426	3.976	88910	40	10.826	10.580	88982	18	12.308	18.043	89054	40	16.440	24.462	89140	23	2.328	4.424
88839	60	24.495	3.756	88911	18	19.559	10.860	88983	35	13.746	18.418	89055	30	16.922	24.100	89141	57	2.388	4.198
88840	33	4.300	4.454	88912	28	19.880	10.130	88984	40	17.072	18.845	89056	21	2.684	25.380	89142	19	5.256	4.084
88841	50	4.625	4.546	88913	19	21.560	10.712	88985	12	24.792	18.540	89057	31	4.504	25.412	89143	16	9.472	4.726
88842	14	5.240	4.970	88914	10	24.400	10.685	88986	40	25.936	18.735	89058	52	5.591	25.770	89144	18	10.486	4.975
88843	15	6.658	4.612	88915	24	24.861	10.989	88987	13	0.787	19.859	89059	12	6.702	25.984	89145	13	10.636	4.472
88844	40	11.195	4.051	88916	22	0.626	11.707	88988	40	1.575	19.864	89060	38	8.845	25.078	89146	17	11.360	4.044
88845	25	15.790	4.717	88917	13	2.110	11.585	88989	18	3.510	19.252	89061	48	13.479	25.680	89147	14	13.617	4.502
88846	43	17.168	4.798	88918	23	3.165	11.882	88990	34	6.937	19.734	89062	37	24.887	25.756	89148	20	15.506	4.242
88847	14	20.564	4.124	88919	28	7.322	11.280	88991	33	8.781	19.328					89149	23	18.972	4.159
88848	25	0.930	5.272	88920	31	7.592	11.519	88992	11	9.582	19.274					89150	39	22.294	4.423
88849	22	2.676	5.627	88921	38	7.610	11.435	88993	33	13.254	19.198					89151	37	23.056	4.856
88850	12	2.740	5.725	88922	36	18.516	11.645	88994	36	13.520	19.242					89152	22	23.830	4.554
88851	22	8.273	5.996	88923	83	20.550	11.305	88995	40	13.630	19.532					89153	37	24.586	4.410
88852	45	22.050	5.100	88924	24	20.700	11.448	88996	16	16.004	19.100					89154	20	3.174	5.691
88853	38	22.744	5.935	88925	28	3.095	12.364	88997	34	19.668	19.726					89155	30	5.705	5.196
88854	16	25.263	5.248	88926	20	7.698	12.058	88998	44	21.488	19.176					89156	20	6.160	5.017
88855	28	4.526	6.924	88927	40	7.813	12.421	88999	17	21.640	19.658					89157	23	9.500	5.396
88856	29	4.794	6.311	88928	26	10.062	12.968	89000	47	21.941	19.010					89158	18	10.986	5.564
88857	14	5.016	6.054	88929	22	12.130	12.647	89001	10	0.582	20.358					89159	42	13.010	5.474
88858	44	6.074	6.134	88930	11	13.152	12.548	89002	51	1.622	20.170					89160	20	13.292	5.424
88859	28	6.260	6.684	88931	20	13.876	12.618	89003	82	4.930	20.566					89161	52	13.734	5.640
88860	62	6.340	6.645	88932	45	20.930	12.438	89004	42	6.928	20.204					89162	15	16.686	5.888
88861	12	15.716	6.587	88933	11	23.890	12.498	89005	40	7.120	20.900					89163	21	17.592	5.992
88862	37	18.220	6.117	88934	15	24.954	12.730	89006	42	9.334	20.754					89164	38	19.802	5.156
88863	14	19.180	6.924	88935	40	25.578	12.820	89007	11	14.860	20.450					89165	21	21.934	5.864
88864	26	20.280	6.728	88936	17	1.544	13.504	89008	12	14.865	20.891					89166	32	22.576	5.641
88865	25	22.747	6.204	88937	17	8.086	13.401	89009	20	15.750	20.576					89167	14	25.394	5.850
88866	31	24.112	6.530	88938	10	19.614	13.069	89010	14	18.195	20.808					89168	30	0.656	6.392
88867	10	0.479	7.247	88939	17	20.597	13.632	89011	32	19.660	20.871					89169	22	0.663	6.662
88868	22	7.687	7.252	88940	27	3.502	14.167	89012	12	20.246	20.832					89170	30	2.028	6.978
88869	13	9.311	7.256	88941	22	5.386	14.275	89013	27	3.548	21.452					89171	14	8.857	6.771
88870	12	13.485	7.491	88942	12	5.602	14.190	89014	14	5.532	21.336					89172	30	13.758	6.715
88871	14	13.820	7.278	88943	38	6.980	14.660	89015	34	7.550	21.038					89173	15	15.300	6.586
88872	20	14.315	7.028	88944	19	6.992	14.574	89016	18	8.214	21.590					89174	37	16.880	6.966
88873	18	14.323	7.052	88945	47	7.590	14.917	89017	22	11.848	21.804					89175	18	17.584	6.074
88874	24	14.563	7.992	88946	49	7.842	14.046	89018	25	13.134	21.352					89176	20	17.764	6.126
88875	14	16.705	7.163	88947	21	8.490	14.130	89019	37	15.033	21.848					89177	18	19.585	6.926
88876	52	17.102	7.778	88948	20	9.221	14.515	89020	13	15.992	21.640					89178	26	23.540	6.524
8																			



89185	17	8.494	7.726	89257	18	10.462	15.384	89329*	60	22.614	23.345	89381	26	10.590	2.575	89453	10	7.964	11.654
89186*	46	14.608	7.016	89258	30	11.435	15.566	89330*	79	25.232	23.413	89382	40	15.583	2.020	89454	9	9.990	11.490
89187	11	14.840	7.474	89259	16	15.792	15.604	89331	17	0.014	24.006	89383	18	18.020	2.282	89455	10	16.778	11.614
89188	12	18.120	7.241	89260	13	24.058	15.766	89332	18	7.372	24.628	89384	15	20.951	2.606	89456	26	16.993	11.115
89189	21	21.000	7.166	89261	15	25.660	15.157	89333	10	7.686	24.074	89385	10	7.742	3.760	89457	23	17.204	11.010
89190	26	22.470	7.824	89262	20	25.676	15.904	89334	15	11.583	24.944	89386	10	11.791	3.226	89458	11	17.580	11.358
89191	22	24.474	7.784	89263	28	5.700	16.099	89335	12	12.726	24.224	89387	34	0.460	4.355	89459	11	18.119	11.400
89192	11	24.748	7.838	89264	18	6.304	16.584	89336	13	17.209	24.466	89388	30	1.228	4.784	89460	12	19.060	11.244
89193	36	1.768	8.335	89265	15	10.109	16.665	89337*	54	21.604	24.481	89389	14	2.000	4.472	89461	27	20.480	11.186
89194	19	2.626	8.486	89266	20	5.344	17.492	89338*	57	21.894	24.254	89390	27	2.756	4.320	89462	12	22.167	11.260
89195	24	5.284	8.359	89267	16	6.036	17.876	89339	24	22.241	24.340	89391	14	5.034	4.998	89463	27	22.446	11.850
89196	37	6.564	8.430	89268	16	7.014	17.216	89340	17	5.629	25.994	89392	29	8.090	4.157	89464	10	24.579	11.790
89197	23	13.144	8.272	89269	14	14.482	17.075	89341*	61	8.045	25.600	89393	12	8.518	4.006	89465	14	1.324	12.454
89198*	50	16.086	8.666	89270	12	17.050	17.964	89342	25	10.748	25.675	89394	10	9.708	4.283	89466	16	4.380	12.468
89199	18	17.614	8.526	89271*	82	21.579	17.246	89343	34	14.469	25.835	89395	9	12.442	4.875	89467	10	7.661	12.382
89200	12	17.882	8.206	89272	30	25.045	17.456	89344	21	14.744	25.588	89396	14	13.014	4.380	89468	16	11.650	12.290
89201	32	19.878	8.494	89273	16	2.789	18.984	89345	14	17.165	25.922	89397	19	13.300	4.309	89469	18	12.370	12.842
89202	37	20.970	8.136	89274	13	3.596	18.810	89346	21	25.630	25.290	89398	13	20.230	4.099	89470*	33	13.115	12.152
89203*	46	21.448	8.032	89275	24	4.446	18.376					89399	14	0.120	5.800	89471*	49	14.208	12.463
89204	25	21.478	8.036	89276	30	7.486	18.886					89400	26	0.757	5.571	89472*	41	15.723	12.441
89205	10	22.420	8.425	89277	15	9.400	18.265					89401	10	3.577	5.750	89473	15	16.890	12.976
89206	39	23.215	8.592	89278	20	9.568	18.406					89402*	46	6.129	5.412	89474	10	17.091	12.103
89207	26	23.800	8.116	89279	22	11.266	18.531					89403	10	6.312	5.480	89475	26	20.310	12.952
89208	24	25.154	8.520	89280	25	11.282	18.955					89404	15	7.900	5.550	89476	30	20.562	12.610
89209	28	0.608	9.600	89281	20	14.615	18.531					89405	12	8.183	5.108	89477	19	20.640	12.074
89210	18	2.579	9.478	89282	37	14.755	18.570					89406	14	14.439	5.853	89478	16	20.656	12.502
89211	14	8.316	9.841	89283*	44	14.764	18.484					89407	23	16.610	5.100	89479	15	1.189	13.210
89212	19	13.416	9.866	89284	14	21.870	18.886					89408	11	20.182	5.408	89480	14	9.370	13.750
89213	10	16.686	9.412	89285	34	3.933	19.168					89409*	48	22.130	5.830	89481	26	11.034	13.260
89214	17	19.104	9.171	89286	24	4.566	19.184					89410	15	22.142	5.708	89482	11	12.162	13.931
89215	19	19.408	9.976	89287	31	7.124	19.564					89411	25	1.728	6.443	89483	26	13.824	13.560
89216	35	25.335	9.096	89288	42	7.680	19.656					89412	17	4.730	6.165	89484	30	14.906	13.696
89217	22	4.732	10.408	89289	13	10.974	19.727					89413	13	5.124	6.768	89485	16	15.158	13.551
89218	15	5.358	10.544	89290	21	11.498	19.848					89414	28	6.114	6.254	89486	37	15.692	13.308
89219	13	13.541	10.360	89291	23	14.604	19.514					89415	10	8.070	6.790	89487*	51	15.960	13.118
89220	21	14.956	10.896	89292	24	16.938	19.552					89416*	43	9.200	6.340	89488	18	16.780	13.525
89221	18	17.817	10.440	89293	14	18.020	19.804					89417*	43	9.508	6.881	89489	16	20.150	13.816
89222	13	20.764	10.666	89294	20	22.545	19.147					89418	20	9.883	6.704	89490	10	22.147	13.489
89223	16	21.664	10.950	89295	17	23.565	19.950					89419*	75	11.198	6.906	89491	38	2.226	14.399
89224	31	22.193	10.322	89296	21	24.830	19.256					89420	14	11.895	6.606	89492	12	5.115	14.990
89225	22	2.808	11.434	89297	120	25.765	19.456					89421	13	16.515	6.228	89493	11	5.832	14.876
89226	26	5.764	11.850	89298	14	11.834	20.536					89422	25	0.672	7.758	89494	16	6.002	14.834
89227	17	5.930	11.988	89299	19	13.331	20.696					89423	21	2.675	7.696	89495	19	19.330	14.428
89228	21	7.512	11.476	89300	12	14.816	20.478					89424	28	4.272	7.550	89496	13	21.606	14.914
89229	15	14.126	11.676	89301	26	17.454	20.872					89425	10	7.552	7.225	89497	22	22.870	14.020
89230	18	14.778	11.395	89302	17	21.765	20.494					89426	29	10.342	7.856	89498	14	3.936	15.056
89231	17	16.689	11.700	89303	22	22.259	20.271					89427	16	16.060	7.750	89499	18	3.958	15.803
89232	18	18.749	11.702	89304	21	11.308	21.694					89428	10	19.230	7.612	89500	14	5.356	15.247
89233	17	22.221	11.530	89305	15	13.378	21.298					89429	29	24.362	7.290	89501	10	10.094	15.978
89234	19	5.383	12.413	89306*	120	16.764	21.301					89430	36	1.420	8.514	89502	14	14.214	15.024
89235	26	11.062	12.522	89307	14	20.474	21.524					89431	21	2.004	8.035	89503*	54	15.824	15.327
89236	12	11.462	12.158	89308	16	23.602	21.385					89432	20	3.360	8.425	89504	13	16.110	15.772
89237	34	15.968	12.844	89309	22	0.539	22.750					89433	30	3.549	8.998	89505	10	16.264	15.414
89238	19	20.750	12.369	89310	14	6.268	22.816					89434	31	6.850	8.468	89506	13	18.026	15.746
89239	18	23.076	12.526	89311	15	8.747	22.419					89435	12	12.164	8.675	89507	10	22.594	15.406
89240	19	2.914	13.174	89312	18	9.710	22.492					89436	32	13.350	8.682	89508	12	23.670	15.520
89241	36	3.534	13.258	89313	19	11.602	22.775					89437	17	20.499	8.429	89509*	40	24.462	15.861
89242	15	7.509	13.016	89314	15	17.136	22.219					89438	10	25.900	8.867	89510	21	4.456	16.170
89243	24	12.210	13.742	89315*	40	18.787	22.966					89439	10	11.647	9.205	89511	14	5.192	16.369
89244	15	14.086	13.310	89316	17	19.206	22.278					89440	13	14.733	9.719	89512	10	16.884	16.284
89245	16	15.862	13.103	89317	24	19.496	22.374					89441*	50	15.782	9.730	89513	33	18.143	16.016
89246	13	16.569	13.382	89318	37	21.644	22.933					89442*	42	16.472	9.324	89514	14	18.180	16.476
89247	21	22.934	13.284	89319	40	22.402	22.321					89443	17	18.772	9.280	89515	11	18.412	16.644
89248	14	6.908	14.994	89320	12	3.936	23.556					89444	11	19.420	9.287	89516	30	19.244	16.664
89249	14	15.824	14.991	89321	22	9.628	23.534					89445	17	20.735	9.420	89517	16	19.808	16.754
89250*	42	15.894	14.704	89322	14	10.798	23.550					89446	30	0.418	10.254	89518	17	23.118	16.934
89251	11	20.022	14.282	89323	25	11.110	23.826					89447	8	3.985	10.171	89519	20	25.126	16.434
89252	42	23.962	14.482	89324	20	11.654	23.162												



89525	30	15.102	17 360	89597	14	6.800	25.120	89692	17	14.971	4.049	89764	17	6.404	10.560	89836	24	8.731	16.940
89526	39	16.055	17.234	89598	28	12.026	25.260	89693	13	15.862	4.152	89765	43	7.333	10.494	89837	15	14.390	16.562
89527	11	16.605	17.920	89599	27	14.798	25.698	89694	10	2.196	5.303	89766	32	14.274	10.848	89838	9	14.429	16.292
89528	13	18.508	17.005	89600	32	15.332	25.204	89695	15	4.410	5.741	89767	44	17.300	10.550	89839	17	15.683	16.588
89529	11	18.652	17.746	89601	26	16.845	25.604	89696	22	7.435	5.661	89768	20	18.866	10.550	89840	32	16.396	16.927
89530	23	23.562	17.355	89602	55	22.920	25.876	89697	22	14.599	5.212	89769	19	19.624	10.077	89841	23	19.712	16.022
89531	13	23.691	17.402	89603	96	24.129	25.446	89698	34	17.925	5.172	89770	27	21.342	10.756	89842	12	20.488	16.260
89532	15	4.510	18.846					89699	24	18.339	5.291	89771	16	21.715	10.761	89843	32	22.470	16.449
89533	49	4.546	18.838					89700	15	19.868	5.638	89772	10	0.753	11.234	89844	24	23.763	16.976
89534	17	4.824	18.970					89701	30	22.182	5.470	89773	13	2.472	11.995	89845	13	24.251	16.706
89535	21	9.962	18.340					89702	40	24.982	5.762	89774	10	6.397	11.221	89846	24	1.052	17.150
89536	27	13.828	18.860					89703	27	5.031	6.300	89775	35	10.515	11.288	89847	30	1.503	17.567
89537	48	15.478	18.430					89704	14	7.470	6.698	89776	13	12.898	11.332	89848	19	1.634	17.612
89538	10	19.322	18.977					89705	12	7.720	6.612	89777	16	14.834	11.414	89849	12	4.046	17.258
89539	17	21.076	18.708					89706	12	10.892	6.878	89778	29	16.300	11.349	89850	12	6.824	17.348
89540	17	0.860	19.079					89707	25	12.554	6.312	89779	18	19.023	11.614	89851	27	7.686	17.066
89541	12	1.888	19.868					89708	24	12.670	6.226	89780	44	20.244	11.302	89852	10	3.910	18.683
89542	15	3.148	19.164					89709	15	13.086	6.092	89781	30	22.124	11.652	89853	17	6.952	18.916
89543	96	4.074	19.354					89710	27	13.295	6.510	89782	53	22.811	11.646	89854	12	8.840	18.762
89544	14	4.895	19.704					89711	10	13.417	6.624	89783	27	0.338	12.070	89855	25	11.426	18.508
89545	33	9.169	19.858					89712	12	13.761	6.180	89784	29	6.958	12.746	89856	14	11.800	18.597
89546	18	14.388	19.900					89713	10	13.769	6.180	89785	24	8.262	12.053	89857	12	13.396	18.176
89547	13	14.793	19.292					89714	12	14.107	6.647	89786	22	10.646	12.456	89858	19	15.460	18.586
89548	10	15.919	19.303					89715	14	16.998	6.004	89787	34	12.380	12.226	89859	22	16.220	18.960
89549	10	18.150	19.714					89716	28	18.585	6.346	89788	22	13.049	12.152	89860	18	20.388	18.756
89550	28	18.320	19.766					89717	32	19.780	6.444	89789	16	14.334	12.948	89861	12	20.418	18.488
89551	14	19.246	19.440					89718	24	24.965	6.997	89790	13	14.857	12.234	89862	37	23.095	18.164
89552	26	19.352	19.535					89719	32	2.216	7.495	89791	10	21.532	12.708	89863	31	23.669	18.007
89553	35	22.701	19.795					89720	21	6.748	7.094	89792	33	21.975	12.356	89864	26	23.711	18.060
89554	23	22.839	19.638					89721	29	6.890	7.194	89793	16	6.702	13.206	89865	15	23.835	18.392
89555	10	24.576	19.030					89722	10	8.205	7.844	89794	23	8.648	13.171	89866	28	0.800	19.855
89556	18	0.589	20.200					89723	41	12.418	7.157	89795	18	8.652	13.179	89867	17	2.527	19.232
89557	39	4.544	20.846					89724	21	14.106	7.449	89796	35	13.268	13.946	89868	38	4.166	19.780
89558	39	5.464	20.700					89725	17	16.030	7.119	89797	12	16.308	13.521	89869	16	4.465	19.920
89559	30	8.200	20.639					89726	10	17.280	7.298	89798	30	21.465	13.152	89870	39	4.894	19.414
89560	17	11.608	20.198					89727	15	17.702	7.018	89799	15	23.011	13.632	89871	26	5.530	19.424
89561	28	15.738	20.344					89728	25	21.362	7.988	89800	22	23.980	13.407	89872	19	9.325	19.570
89562	17	21.000	20.833					89729	9	21.652	7.945	89801	13	24.665	13.092	89873	21	9.829	19.955
89563	10	1.940	21.302					89730	16	21.700	7.592	89802	27	0.781	14.238	89874	25	13.657	19.971
89564	13	7.196	21.304					89731	14	25.410	7.427	89803	45	8.030	14.062	89875	31	16.034	19.548
89565	46	7.876	21.694					89732	48	4.180	8.830	89804	11	9.446	14.020	89876	22	18.782	19.300
89566	33	8.845	21.905					89733	16	5.330	8.502	89805	13	14.531	14.480	89877	12	19.436	19.971
89567	13	11.562	21.090					89734	21	5.469	8.835	89806	24	14.908	14.890	89878	25	19.629	19.876
89568	26	0.000	22.868					89735	19	5.663	8.384	89807	15	17.674	14.590	89879	12	24.339	19.760
89569	35	0.748	22.250					89736	29	7.452	8.520	89808	12	19.150	14.431	89880	39	0.660	20.016
89570	30	5.854	22.226					89737	28	7.462	8.005	89809	21	20.474	14.583	89881	25	16.246	20.360
89571	21	6.452	22.465					89738	18	10.266	8.640	89810	33	22.412	14.670	89882	12	16.335	20.406
89572	11	12.720	22.216					89739	14	12.085	8.410	89811	10	0.516	15.627	89883	33	16.581	20.904
89573	16	12.792	22.494					89740	26	12.665	8.859	89812	14	1.594	15.730	89884	39	21.114	20.940
89574	22	19.420	22.230					89741	28	13.660	8.142	89813	11	2.694	15.381	89885	10	3.181	21.158
89575	42	19.610	22.138					89742	24	14.172	8.418	89814	28	4.166	15.520	89886	25	4.242	21.889
89576	42	23.492	22.276					89743	30	17.575	8.739	89815	17	6.248	15.939	89887	29	4.294	21.266
89577	61	0.965	23.275					89744	18	18.261	8.704	89816	26	8.498	15.920	89888	21	8.430	21.114
89578	69	3.582	23.315					89745	32	19.154	8.398	89817	24	10.060	15.891	89889	22	11.238	21.608
89579	8	8.938	23.683					89746	41	20.937	8.196	89818	32	11.451	15.312	89890	26	12.747	21.624
89580	10	9.276	23.875					89747	25	22.571	8.822	89819	15	15.061	15.227	89891	12	13.550	21.900
89581	10	9.444	23.619					89748	16	3.769	9.058	89820	17	15.187	15.858	89892	40	13.825	21.674
89582	28	12.410	23.098					89749	27	5.869	9.266	89821	31	19.772	15.306	89893	12	16.430	21.985
89583	14	14.696	23.060					89750	19	8.038	9.158	89822	14	19.976	15.842	89894	23	16.442	21.979
89584	45	14.915	23.440					89751	12	11.383	9.159	89823	14	20.023	15.402	89895	22	16.688	21.320
89585	21	17.807	23.966					89752	11	12.494	9.172	89824	12	20.368	15.500	89896	29	18.571	21.528
89586	14	21.677	23.846					89753	11	13.022	9.409	89825	16	22.550	15.449	89897	32	22.960	21.345
89587	13	23.402	23.654					89754	57	13.685	9.587	89826	36	22.930	15.890	89898	33	25.659	21.746
89588	56	0.256	24.191					89755	48	13.692	9.606	89827	25	24.040	15.932	89899	41	1.473	22.490
89589	12	0.610	24.271					89756	41	14.096	9.590	89828	41	2.384	16.066	89900	31	7.853	22.222
89590	32	14.120	24.160					89757	12	16.106	9.880	89829	27	3.056	16.632	89901	18	7.918	22.839
89591	11	18.700	24.208					89758	10	16.118	9.545	89830	45	3.082	16.584	89902	9	8.376	22.174
89592	11	20.362	24.990					89759	22	17.009	9.454	89831	12	3.679	16.188	89903	30	12.047	22.390
89593	27	20.682	24.310					89760	34	20.445	9.012	89832	14	3.860	16.292	89904			



89908	23	1.401	23.868	89977	13	23.672	2.392	90049	10	8.556	9.527	90121	20	25.990	14.334	90193	28	22.560	20.267
89909	22	5.802	23.841	89978	16	24.231	2.966	90050	9	9.233	9.942	90122	15	0.379	15.720	90194	11	22.672	20.050
89910	11	7.452	23.713	89979*	42	2.166	3.941	90051	9	9.824	9.700	90123	29	7.962	15.756	90195	24	23.928	20.128
89911	15	11.694	23.720	89980	12	4.004	3.604	90052	10	14.264	9.614	90124	8	8.540	15.506	90196	20	24.212	20.674
89912	25	12.770	23.214	89981	21	4.236	3.702	90053	21	15.928	9.386	90125	44	9.715	15.396	90197	13	25.889	20.796
89913	10	17.030	23.832	89982	11	6.007	3.304	90054	8	16.167	9.577	90126	26	14.588	15.422	90198	29	0.883	21.610
89914	23	19.063	23.232	89983	10	6.042	3.306	90055	28	16.698	9.418	90127*	129	15.968	15.320	90199	10	2.634	21.070
89915	33	24.125	23.553	89984	20	6.098	3.650	90056	9	16.800	9.030	90128	9	17.670	15.079	90200	32	3.586	21.968
89916	12	5.302	24.420	89985	12	10.386	3.756	90057	12	18.370	9.152	90129	8	19.708	15.536	90201	11	5.401	21.604
89917	27	5.660	24.726	89986	8	10.433	3.247	90058	35	19.234	9.938	90130	15	20.343	15.685	90202	13	5.526	21.338
89918	10	5.788	24.170	89987	14	11.991	3.088	90059	10	22.572	9.745	90131	24	21.518	15.260	90203	13	6.594	21.286
89919	17	6.672	24.179	89988	8	13.302	3.623	90060	9	2.551	10.948	90132	22	23.514	15.401	90204	15	7.922	21.853
89920	12	11.950	24.480	89989	18	13.356	3.878	90061	8	3.506	10.274	90133	9	25.386	15.534	90205	9	11.350	21.033
89921	33	13.965	24.505	89990	10	16.147	3.642	90062	18	4.133	10.672	90134	28	0.314	16.723	90206	32	11.701	21.228
89922	12	25.309	24.072	89991	30	21.173	3.063	90063	17	4.943	10.660	90135	36	0.763	16.156	90207	16	17.937	21.892
89923	89	2.129	25.652	89992	22	24.440	3.541	90064	15	9.798	10.808	90136	20	1.876	16.182	90208	14	25.430	21.836
89924	51	9.469	25.634	89993	9	1.908	4.318	90065	8	13.367	10.106	90137	13	2.101	16.951	90209	20	7.200	22.630
89925	44	13.192	25.648	89994	24	6.138	4.313	90066	9	13.796	10.724	90138	32	4.146	16.924	90210	29	9.970	22.816
89926	39	16.570	25.577	89995	11	6.812	4.784	90067	36	14.015	10.480	90139	17	4.366	16.595	90211	15	10.431	22.742
89927	13	18.476	25.970	89996	23	11.128	4.926	90068	12	24.200	10.745	90140	22	8.180	16.266	90212	13	13.788	22.052
89928	13	19.757	25.091	89997	17	13.934	4.066	90069	15	25.324	10.653	90141	20	8.283	16.076	90213	31	15.446	22.846
89929	31	22.235	25.751	89998	10	15.057	4.124	90070	36	25.776	10.654	90142	39	9.044	16.127	90214	15	20.642	22.819
				89999	19	25.087	4.548	90071*	60	0.571	11.914	90143	14	13.862	16.171	90215	12	23.917	22.508
				90000	9	25.577	4.240	90072	11	4.683	11.177	90144	13	14.770	16.564	90216	13	25.267	22.736
				90001*	42	2.650	5.998	90073	18	5.873	11.556	90145	15	16.700	16.346	90217	30	2.083	23.800
				90002	20	7.838	5.803	90074	25	10.874	11.464	90146	20	18.136	16.988	90218	8	2.330	23.117
				90003	12	10.466	5.268	90075	10	15.417	11.238	90147	8	21.118	16.367	90219	28	3.611	23.168
				90004	12	11.288	5.920	90076	13	18.769	11.639	90148	34	22.471	16.585	90220	12	5.844	23.564
				90005	31	12.838	5.407	90077	8	20.604	11.118	90149	35	25.038	16.950	90221	20	16.250	23.003
				90006*	64	16.019	5.346	90078	35	21.811	11.834	90150	14	1.330	17.180	90222	9	17.566	23.732
				90007	9	18.473	5.194	90079*	66	23.760	11.452	90151	22	1.616	17.228	90223	22	19.410	23.510
				90008	10	19.473	5.210	90080*	46	24.993	11.060	90152	10	3.810	17.093	90224	18	20.987	23.992
				90009	14	23.808	5.674	90081	9	2.642	12.026	90153	14	7.290	17.521	90225	23	24.284	23.918
				90010	10	1.372	6.351	90082	8	3.820	12.085	90154	16	7.948	17.627	90226	14	3.280	24.300
				90011	34	9.626	6.168	90083	9	4.055	12.093	90155	9	9.285	17.831	90227	15	7.684	24.344
				90012	12	10.594	6.713	90084	8	4.808	12.298	90156	11	10.740	17.694	90228	18	7.692	24.333
				90013	25	10.842	6.528	90085	14	6.202	12.290	90157	9	12.816	17.652	90229	11	13.686	24.963
				90014	8	14.438	6.880	90086	12	9.902	12.008	90158	28	16.064	17.411	90230	14	14.151	24.304
				90015	19	15.368	6.672	90087	13	10.353	12.095	90159	23	16.581	17.985	90231	17	14.380	24.168
				90016	14	16.980	6.790	90088	12	10.595	12.236	90160	10	19.879	17.312	90232	33	18.206	24.056
				90017	8	19.828	6.340	90089	13	13.984	12.328	90161	32	0.966	18.428	90233	17	22.616	24.317
				90018	20	20.398	6.756	90090	15	18.133	12.368	90162	28	1.537	18.260	90234	19	23.064	24.982
				90019	13	20.856	6.598	90091	21	20.335	12.908	90163	22	1.582	18.313	90235	23	24.108	24.906
				90020	19	21.148	6.106	90092	16	20.877	12.894	90164	15	1.712	18.643	90236	15	3.758	25.377
				90021	16	21.484	6.363	90093	9	20.958	12.201	90165	14	3.180	18.050	90237	13	5.906	25.181
				90022	29	24.300	6.829	90094	28	21.850	12.768	90166	14	5.563	18.231	90238	36	8.808	25.886
				90023	9	25.914	6.366	90095	38	24.996	12.340	90167	11	8.422	18.186	90239	13	9.992	25.159
				90024	25	2.656	7.230	90096	15	0.810	13.896	90168	21	10.454	18.671	90240	20	13.107	25.511
				90025	18	3.110	7.652	90097	20	1.776	13.656	90169	24	13.124	18.570	90241	15	13.384	25.657
				90026	28	5.267	7.571	90098	15	2.454	13.330	90170	15	14.682	18.280	90242	46	21.040	25.694
				90027	16	5.960	7.854	90099	35	3.796	13.568	90171	32	15.950	18.014	90243*	44	21.898	25.068
				90028	19	6.668	7.130	90100	14	5.605	13.131	90172	8	19.074	18.798	90244	8	23.790	25.178
				90029	41	7.232	7.848	90101	17	6.534	13.439	90173	17	19.153	18.242	90245	15	24.065	25.687
				90030	45	11.887	7.4												



R.A. 22 <sup>h</sup> 36 <sup>m</sup>				R.A. 22 <sup>h</sup> 44 <sup>m</sup>			
Plate 1852; 1921 Oct. 29.				Plate 1838; 1921 Oct 5.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-01761	+00505	-1964		-01735	+01168	-0385	
D	E	F		D	E	F	
-00444	-01802	-1916		-01192	-01792	+2225	
Mag.=16.8-1.05√d				Mag.=16.4-1.05√d			
No	d	x	y	No.	d	x	y
90251	38	1.260	0.207	90551	25	11.314	0.640
90252	18	1.586	0.621	90552*	51	19.452	0.978
90253	15	7.967	0.256	90553	22	22.976	0.846
90254	38	8.494	0.807	90554	31	2.570	1.600
90255	26	12.577	0.924	90555	37	3.099	1.494
90256	18	14.580	0.565	90556	15	5.508	1.122
90257	18	14.970	0.096	90557	18	6.066	1.978
90258	20	19.082	0.328	90558	21	6.522	1.404
90259	15	21.764	0.836	90559	33	10.594	1.344
90260	9	2.214	1.828	90560	24	11.522	1.914
90261	25	3.521	1.232	90561	19	11.789	1.292
90262	11	3.719	1.788	90562	23	17.980	1.184
90263	24	5.890	1.822	90563	27	19.410	1.858
90264	15	8.029	1.626	90564	40	24.511	1.812
90265	23	8.744	1.086	90565*	100	7.730	2.708
90266	25	8.818	1.546	90566	20	12.900	2.378
90267	30	9.864	1.964	90567	20	3.382	3.733
90268	24	11.551	1.235	90568	22	6.065	3.298
90269	11	19.075	1.710	90569*	47	9.876	3.750
90270	40	20.442	1.044	90570	19	10.406	3.320
90271	38	24.562	1.124	90571	25	12.915	3.450
90272	39	25.096	1.028	90572	15	19.928	3.386
90273	18	1.636	2.316	90573	31	21.108	3.660
90274	24	2.200	2.885	90574	11	0.116	4.500
90275	17	5.660	2.140	90575	29	4.715	4.555
90276	17	6.583	2.616	90576	15	10.815	4.071
90277	44	8.775	2.588	90577	23	12.584	4.040
90278	23	12.736	2.282	90578	33	22.410	4.314
90279	13	13.310	2.801	90579	25	23.825	4.830
90280	28	15.750	2.605				
90281	10	16.084	2.606				
90282	15	16.205	2.224				
90283	37	2.412	3.458				
90284	38	7.986	3.149				
90285	39	8.026	3.142				
90286*	46	8.044	3.345				
90287	42	9.542	3.415				
90288	12	16.658	3.829				
90289	15	20.557	3.666				
90290	14	22.050	3.974				
90291	22	25.334	3.274				
90292	26	3.070	4.458				
90293	15	7.578	4.995				
90294	37	10.740	4.325				
90295	38	10.802	4.816				
90296	20	14.861	4.885				
90297	31	19.450	4.248				
90298	39	21.315	4.914				
90299	16	1.801	5.596				
90300	20	5.748	5.198				
90301	17	5.900	5.925				
90302	18	7.323	5.234				
90303	13	8.550	5.726				
90304	36	9.778	5.046				
90305	13	12.448	5.918				
90306	16	14.127	5.143	90378	16	11.206	11.314
90307	13	18.414	5.054	90379	19	12.577	11.404
90308	39	19.856	5.378	90380	20	15.520	11.532
90309	16	19.888	5.916	90381	30	19.030	11.032
90310	21	21.510	5.328	90382	22	20.264	11.540
90311	18	23.364	5.903	90383	19	22.324	11.774
90312	37	2.300	6.748	90384	40	23.030	11.111
90313	13	3.910	6.267	90385	42	3.048	12.254
90314	32	4.737	6.134	90386	12	6.648	12.850
90315	19	6.578	6.332	90387	15	7.022	12.995
90316	26	6.929	6.925	90388	18	7.260	12.318
90317	14	7.620	6.786	90389	38	8.054	12.680
90318*	52	9.044	6.998	90390	28	9.008	12.274
90319	16	9.452	6.746	90391	17	16.319	12.751
90320	26	11.335	6.528	90392	15	17.504	12.035
90321	20	12.635	6.501	90393	20	22.646	12.414
90322	26	15.062	6.804	90394	15	23.438	12.304
90323	23	17.291	6.599	90395	34	0.498	13.036
90324	16	23.665	6.925	90396	20	2.135	13.184
90325	34	4.026	7.056	90397	25	2.612	13.346
90326	21	7.066	7.164	90398	10	3.710	13.704
90327	15	10.200	7.824	90399	38	9.550	13.331
90328	26	13.024	7.008	90400	17	11.239	13.510
90329	14	13.300	7.100	90401	35	13.554	13.009
90330	17	13.798	7.974	90402	18	13.972	13.896
90331	23	15.112	7.744	90403	28	15.875	13.316
90332	21	16.049	7.631	90404	21	25.480	13.454
90333	10	16.770	7.800	90405	13	3.120	14.700
90334	23	18.185	7.094	90406	17	3.136	14.885
90335	11	19.528	7.761	90407	20	4.062	14.236
90336	14	0.902	8.175	90408*	42	5.200	14.216
90337	23	1.184	8.312	90409	38	7.312	14.918
90338	18	6.198	8.290	90410	11	8.756	14.156
90339	15	6.812	8.488	90411	38	11.532	14.806
90340	14	7.233	8.884	90412	10	11.618	14.260
90341	28	9.224	8.014	90413	38	12.450	14.241
90342	20	11.254	8.086	90414	39	15.260	14.265
90343	28	13.226	8.442	90415	18	16.505	14.234
90344	16	19.250	8.932	90416	16	18.440	14.836
90345	22	20.946	8.992	90417	14	19.512	14.554
90346	35	22.246	8.165	90418	14	23.581	14.205
90347	22	23.442	8.542	90419	12	24.244	14.289
90348	15	24.599	8.705	90420*	41	24.540	14.753
90349	15	5.674	9.965	90421	20	1.596	15.328
90350	17	6.876	9.724	90422	22	7.168	15.802
90351	38	12.188	9.127	90423*	39	9.170	15.274
90352	19	16.854	9.884	90424	18	9.508	15.050
90353	32	16.956	9.274	90425	18	13.239	15.672
90354	28	17.116	9.794	90426	20	18.806	15.926
90355	16	19.966	9.146	90427*	52	19.890	15.678
90356	13	22.042	9.014	90428	23	21.678	15.908
90357	21	22.662	9.061	90429	14	24.212	15.660
90358	15	22.690	9.816	90430	38	0.564	16.522
90359	17	23.342	9.123	90431	38	3.135	16.862
90360	26	25.206	9.902	90432*	52	4.720	16.749
90361	15	25.359	9.114	90433	11	5.615	16.214
90362	14	25.388	9.307	90434	16	9.345	16.836
90363	14	2.242	10.664	90435	17	11.765	16.165
90364*	56	3.029	10.975	90436*	39	14.226	16.128
90365	15	3.362	10.564	90437	12	16.221	16.604
90366	38	3.814	10.558	90438	37	20.058	16.194
90367	30	5.324	10.656	90439*	36	25.341	16.888
90368	24	6.710	10.980	90440	12	5.450	17.018
90369	37	9.474	10.164	90441	17	8.546	17.588
90370	19	9.636	10.942	90442	21	11.606	17.640
90371	14	12.118	10.015	90443	18	14.769	17.968
90372	16	12.182	10.105	90444*	48	23.368	17.198
90373	22	18.544	10.520	90445	15	3.392	18.684
90374	38	21.056	10.786	90446	31	5.292	18.608
90375*	99	1.799	11.376	90447	33	11.946	18.276
90376	15	8.634	11.256	90448	35	14.168	18.886
90377	16	10.084	11.154	90449*	42	15.992	18.036



90580	29	5.972	5.018	90652	20	17.548	16.634	<div>R.A. 22<sup>h</sup> 52<sup>m</sup></div> <div>Plate 1836, 1921 Oct 4.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-01732 + 01012 -1843</div> <div>D E F</div> <div>-01035 -01762 -2370</div> <div>Mag = 16.3 - 1.05√d</div>	90806	12	14.452	4.958	90878	25	5.051	10.188
90581	14	5.997	5.960	90653	19	23.706	16.626		90807	13	16.938	4.742	90879	23	6.002	10.856
90582	13	8.545	5.430	90654	20	25.413	16.892		90808	24	23.428	4.542	90880	22	7.066	10.399
90583	13	11.024	5.551	90655*	40	1.682	17.694		90809	22	25.266	4.121	90881	20	8.321	10.464
90584	14	11.384	5.498	90656*	29	3.650	17.345		90810	10	2.930	5.524	90882	32	8.354	10.462
90585	13	17.115	5.392	90657	20	4.943	17.972		90811	13	4.959	5.964	90883	9	12.180	10.012
90586	16	1.465	6.398	90658	31	6.586	17.151		90812	18	13.429	5.129	90884*	64	13.411	10.157
90587*	42	5.860	6.221	90659	22	8.518	17.015		90813	15	13.497	5.460	90885	22	18.080	10.464
90588	24	12.242	6.985	90660	14	16.446	17.450		90814	16	13.497	5.471	90886	20	18.751	10.082
90589	12	12.310	6.753	90661	16	5.195	18.128		90815	34	14.048	5.084	90887	18	18.950	10.470
90590	21	18.345	6.052	90662	24	5.720	18.872	90816	12	14.166	5.250	90888	22	22.172	10.960	
90591	13	1.785	7.414	90663	15	9.210	18.318	90817	12	17.513	5.728	90889	23	23.540	10.389	
90592	20	5.405	7.700	90664*	38	12.586	18.818	90818	10	21.326	5.120	90890	18	24.861	10.668	
90593	15	6.782	7.990	90665	14	12.860	18.830	90819	11	21.328	5.100	90891	29	1.610	11.392	
90594	13	10.611	7.422	90666	18	14.416	18.590	90820	44	21.640	5.737	90892*	43	3.521	11.483	
90595	24	17.126	7.555	90667*	50	19.136	18.325	90821	23	22.950	5.954	90893	10	3.586	11.024	
90596	13	21.747	7.765	90668	19	2.150	19.457	90822	10	23.454	5.389	90894	10	6.442	11.159	
90597	36	23.225	7.850	90669*	35	4.029	19.938	90823	27	23.875	5.032	90895	34	8.881	11.132	
90598	17	25.160	7.668	90670	26	4.270	19.955	90824	30	3.806	6.975	90896	9	10.049	11.525	
90599	29	0.385	8.685	90671	15	5.026	19.210	90825	16	4.466	6.824	90897*	32	12.420	11.880	
90600	15	8.957	8.232	90672*	42	7.595	19.740	90826	35	5.329	6.480	90898	10	18.704	11.416	
90601	24	16.810	8.415	90673	22	9.992	19.301	90827	28	5.702	6.655	90899	10	18.780	11.788	
90602*	44	21.791	8.048	90674	11	14.890	19.308	90828	21	12.138	6.662	90900	13	21.884	11.158	
90603*	40	23.932	8.037	90675	12	17.694	19.168	90829	13	13.772	6.890	90901	33	0.422	12.628	
90604	29	24.294	8.208	90676	27	18.180	19.251	90830	24	15.376	6.965	90902	11	12.003	12.500	
90605	19	0.820	9.572	90677	19	18.682	19.762	90831	27	22.098	6.150	90903	16	20.127	12.490	
90606	19	1.592	9.038	90678	17	20.394	19.355	90832	14	23.564	6.936	90904*	48	8.729	13.220	
90607	16	8.760	9.655	90679	17	24.318	19.870	90833	25	25.122	6.476	90905	16	10.058	13.928	
90608	17	12.084	9.325	90680	12	7.141	20.622	90834	37	0.983	7.668	90906	24	11.020	13.424	
90609	27	22.364	9.770	90681	13	8.255	20.960	90835*	42	1.690	7.849	90907	22	11.099	13.054	
90610	13	23.384	9.975	90682	14	14.727	20.126	90836	25	2.914	7.465	90908	32	13.606	13.112	
90611	20	23.626	9.818	90683	16	15.040	20.804	90837	13	3.130	7.011	90909	35	14.582	13.860	
90612	24	23.832	9.288	90684	23	18.348	20.965	90838	12	7.288	7.491	90910	34	18.704	13.465	
90613	19	24.440	9.692	90685	15	11.266	21.122	90839	15	8.007	7.250	90911	21	19.100	13.137	
90614	21	3.380	10.364	90686	24	11.455	21.284	90840	26	8.302	7.186	90912	10	21.196	13.663	
90615*	45	5.225	10.437	90687	13	11.856	21.211	90841	33	9.650	7.852	90913	16	23.310	13.998	
90616	24	10.682	10.978	90688*	52	21.440	21.183	90842	31	10.330	7.971	90914	30	1.768	14.909	
90617*	45	12.425	10.370	90689	14	22.199	21.848	90843	16	13.256	7.816	90915	36	5.748	14.529	
90618*	100	14.379	10.623	90690	26	4.095	22.614	90844	29	14.025	7.168	90916	14	6.960	14.092	
90619	30	21.266	10.127	90691	24	5.692	22.210	90845	11	15.109	7.105	90917	10	8.020	14.943	
90620	31	22.201	10.251	90692	25	6.565	22.536	90846	12	16.492	7.581	90918	21	9.837	14.281	
90621	11	22.558	10.189	90693	21	8.615	22.506	90847	33	17.825	7.250	90919	29	10.925	14.634	
90622	40	1.226	11.614	90694	24	13.640	22.032	90848	29	18.165	7.450	90920	31	12.020	14.042	
90623	24	21.528	11.337	90695	20	23.180	22.648	90849	40	22.474	7.008	90921*	44	13.133	14.816	
90624	22	23.810	11.580	90696	32	25.846	22.914	90850	11	1.170	8.132	90922	35	16.943	14.518	
90625	40	25.723	11.690	90697	36	2.218	23.785	90851	36	2.054	8.014	90923	41	18.271	14.138	
90626	14	0.537	12.290	90698	30	4.172	23.924	90852	21	6.938	8.784	90924	33	20.138	14.300	
90627	14	0.872	12.925	90699	17	7.000	23.487	90853*	73	7.556	8.604	90925	23	21.844	14.499	
90628	12	10.013	12.091	90700	20	9.139	23.120	90854	17	8.126	8.926	90926	11	0.249	15.305	
90629	18	12.910	12.689	90701	10	12.339	23.404	90855	23	13.682	8.560	90927	34	4.890	15.991	
90630	12	16.256	12.855	90702	20	12.506	23.812	90856	13	17.924	8.487	90928	21	6.260	15.558	
90631	25	22.610	12.802	90703	20	16.464	23.468	90857	27	18.521	8.615	90929	35	8.636	15.846	
90632	18	3.725	13.910	90704	16	20.315	23.810	90858	28	20.010	8.788	90930	30	9.760	15.911	
90633	20	5.590	13.740	90705	26	22.462	23.172	90859	14	24.039	8.184	90931	24	10.710	15.615	
90634	17	5.637	13.170	90706	16	24.100	23.435	90860	33	0.143	9.600	90932	10	16.970	15.436	
90635	20	5.654	13.180	90707	15	25.926	23.920	90861	21	1.165	9.791	90933	14	18.959	15.806	
90636	18	9.684	13.874	90708	15	3.283	24.740	90862	27	1.404	9.630	90934	13	19.342	15.150	
90637	14	9.970	13.304	90709	20	15.614	24.652	90863	14	1.528	9.685	90935	32	20.740	15.958	
90638	28	11.484	13.008	90710	25	15.650	24.495	90864	32	1.605	9.100	90936	13	21.980	15.070	
90639	22	14.671	13.929	90711	17	1.264	25.598	90865	23	2.218	9.498	90937	12	23.679	15.664	
90640	21	15.260	13.534	90712	13	1.386	25.832	90866	20	4.386						



90950	23	21.209	16.178	91022	24	16.683	22.342	91075	46	4.878	3.589	91147	12	7.523	12.589	91219	39	10.900	21.447
90951*	43	21.565	16.476	91023	14	17.290	22.618	91076	27	21.125	3.377	91148	13	12.738	12.106	91220	16	18.892	21.878
90952	10	22.924	16.089	91024	10	17.616	22.110	91077	21	21.422	3.394	91149	31	13.508	12.402	91221	10	20.034	21.394
90953	21	23.241	16.158	91025	23	19.330	22.091	91078	38	24.674	3.990	91150	30	16.970	12.964	91222	19	21.452	21.425
90954	28	25.546	16.920	91026	13	22.573	22.306	91079	26	25.514	3.984	91151*	40	17.462	12.422	91223	25	21.891	21.745
90955	16	25.784	16.789	91027	23	2.032	23.245	91080	29	1.286	4.671	91152	18	18.542	12.579	91224	24	25.029	21.394
90956	10	1.228	17.572	91028	12	2.264	23.758	91081	27	3.122	4.229	91153	41	21.686	12.994	91225	13	0.636	22.448
90957	12	1.829	17.699	91029	23	3.864	23.708	91082	21	5.199	4.850	91154*	43	4.737	13.252	91226	12	7.167	22.525
90958	14	4.022	17.245	91030	10	4.080	23.892	91083	42	7.390	4.474	91155	12	6.200	13.408	91227	33	9.899	22.494
90959*	42	4.802	17.006	91031*	40	4.962	23.294	91084	14	8.147	4.292	91156	27	9.360	13.230	91228	27	10.520	22.708
90960	16	6.008	17.096	91032	16	9.109	23.224	91085	10	8.636	4.563	91157	16	10.296	13.963	91229	22	11.904	22.222
90961	11	9.379	17.596	91033	27	13.845	23.506	91086	30	18.095	4.375	91158	24	16.330	13.906	91230	33	16.072	22.048
90962	22	10.049	17.854	91034	20	15.720	23.104	91087	25	1.740	5.159	91159*	42	20.227	13.869	91231	38	22.253	22.342
90963	10	16.370	17.625	91035	11	16.334	23.790	91088	11	6.620	5.632	91160	20	1.275	14.129	91232	42	22.286	22.344
90964	14	16.992	17.218	91036	9	20.160	23.356	91089	25	6.863	5.806	91161*	50	7.411	14.066	91233	10	23.978	22.890
90965*	46	17.031	17.390	91037	29	21.605	23.472	91090	38	14.556	5.558	91162*	48	12.833	14.444	91234	40	24.631	22.880
90966	26	17.188	17.628	91038	14	22.560	23.954	91091*	62	17.082	5.338	91163	17	16.102	14.588	91235	37	6.004	23.961
90967	26	23.425	17.701	91039	11	11.410	24.020	91092	13	18.501	5.120	91164	17	23.500	14.894	91236	21	10.304	23.348
90968	36	23.953	17.891	91040	36	16.639	24.702	91093	35	19.106	5.650	91165	11	1.666	15.794	91237	17	11.478	23.496
90969	39	25.460	17.153	91041	15	20.471	24.704	91094	22	25.248	5.201	91166	15	6.386	15.177	91238	29	12.055	23.595
90970	13	5.896	18.613	91042	12	21.362	24.332	91095	28	25.280	5.176	91167	17	10.380	15.976	91239	18	12.660	23.804
90971	16	6.825	18.071	91043	34	3.915	25.686	91096	26	0.824	6.089	91168	29	15.424	15.166	91240	34	16.547	23.765
90972	10	8.278	18.680	91044	10	4.954	25.093	91097	21	3.003	6.585	91169	28	16.699	15.778	91241	36	17.482	23.107
90973	33	10.748	18.170	91045	10	4.959	25.158	91098	41	5.384	6.674	91170	17	17.920	15.041	91242	10	18.019	23.738
90974	25	12.015	18.105	91046	10	8.316	25.554	91099	14	13.040	6.013	91171	17	17.945	15.015	91243	18	18.228	23.000
90975	9	14.531	18.739	91047	28	9.166	25.069	91100	20	13.654	6.788	91172	21	18.938	15.435	91244	38	19.390	23.635
90976	25	15.730	18.862	91048	34	15.850	25.431	91101	11	14.812	6.046	91173	40	19.604	15.144	91245	22	19.532	23.270
90977	12	20.563	18.893					91102	30	16.522	6.220	91174	32	21.536	15.946	91246	29	21.360	23.672
90978	25	21.189	18.012					91103	46	0.359	7.150	91175	12	0.914	16.225	91247	26	22.142	23.051
90979	23	2.210	19.676					91104	16	1.450	7.064	91176	19	1.232	16.290	91248	12	0.640	24.096
90980	10	3.666	19.833					91105	21	6.454	7.572	91177	15	3.782	16.891	91249	10	1.164	24.624
90981	20	7.660	19.328					91106	24	8.739	7.726	91178	14	5.293	16.244	91250	25	4.548	24.351
90982	37	9.247	19.834					91107	24	14.770	7.776	91179	12	6.410	16.020	91251	15	9.791	24.420
90983	21	12.473	19.438					91108	25	16.852	7.588	91180	14	15.434	16.662	91252	41	10.674	24.783
90984	24	13.550	19.192					91109	33	18.220	7.490	91181	34	18.964	16.374	91253	34	12.286	24.294
90985	32	14.736	19.551					91110	34	20.535	7.580	91182	33	23.546	16.404	91254	36	12.866	24.980
90986	17	17.336	19.019					91111	40	21.050	7.760	91183	19	24.304	16.713	91255	22	14.247	24.239
90987	12	17.445	19.942					91112	32	21.578	7.674	91184	33	25.706	16.390	91256*	46	17.084	24.032
90988	11	0.067	20.460					91113	24	24.396	7.280	91185	26	1.434	17.832	91257	32	17.704	24.689
90989	11	2.496	20.105					91114	41	24.676	7.660	91186	41	3.460	17.260	91258	32	7.495	25.403
90990	12	3.766	20.208					91115	18	1.938	8.307	91187	30	3.545	17.026	91259	40	7.694	25.964
90991*	37	7.215	20.970					91116	10	2.907	8.800	91188*	109	5.578	17.195	91260	18	10.846	25.091
90992	11	11.058	20.168					91117	26	4.275	8.421	91189	37	6.396	17.830	91261	30	13.262	25.295
90993	28	11.190	20.533					91118	25	4.673	8.814	91190	10	16.623	17.924	91262	19	13.942	25.185
90994	22	11.242	20.714					91119	19	6.811	8.328	91191	39	18.190	17.103	91263	14	14.360	25.198
90995	37	11.516	20.064					91120*	47	7.240	8.223	91192*	45	22.644	17.023	91264	18	16.837	25.394
90996*	40	12.266	20.782					91121	37	8.366	8.309	91193	36	1.964	18.015	91265	46	20.874	25.800
90997	34	20.772	20.392					91122	15	11.534	8.892	91194	23	8.636	18.545				
90998	9	22.466	20.988					91123	16	15.274	8.950	91195	20	10.344	18.695				
90999	10	23.137	20.249					91124	33	16.941	8.803	91196	28	23.860	18.409				
91000	15	23.387	20.279					91125	28	21.229	8.434	91197	42	24.661	18.304				
91001	13	24.552	20.988					91126	24	1.353	9.240	91198	30	25.452	18.108				
91002	18	0.113	21.676					91127	28	1.560	9.842	91199	31	25.526	18.540				
91003	23	4.059	21.066					91128	23	3.002	9.526	91200	14	13.274	19.066				
91004	14	4.784	21.584					91129*	43	3.102	9.479	91201	12	21.010	19.139				
91005	11	8.122	21.096					91130	13	4.596	9.423	91202	13	23.598	19.272				
91006	10	8.912	21.262					91131	10	4.824	9.636	91203	33	24.572	19.466				
91007	34	10.104	21.881					91132	10	5.470	9.275	91204	13	25.116	19.260				
91008	25	13.868	21.448					91133	14	13.189	9.197	91205	10	1.174	20.380				
91009*	36	15.486	21.011					91134	20	14.726	9.918	91206	11	1.425	20.410				
91010	23	16.472	21.582					91135	26	1.465	10.516	91207	34	7.705	20.576				
91011	11	19.666	21.929					91136	18	2.790	10.782	91208	10	11.313	20.684				
91012	30	19.728	21.226					91137	13	5.238	10.677	91209	39	13.640	20.680				
91013	16	22.018	21.140					91138	31	9.221	10.058	91210	17	15.484	20.270				
91014	26	22.052	21.495					91139	10	20.950	10.128	91211	12	17.208	20.038				
91015	32	0.391	22.999					91140	12	22.598	10.847	91212	20	21.044	20.558				
91016	26	1.104	22.466					91141	19	0.105	11.104	91213*	135	24.046	20.704				
91017	12	1.858	22.760					91142	23	9.681	11.175	91214	13	24.340	20.092				
91018*	39	3.770	22.704					91143	25	16.159	11.192	91215	14	0.066	21.288				



91305	33	10.632	1.873	91377	25	6.651	11.376	91449	9	15.422	20.633	91511	24	7.540	1.526	91583	33	16.394	8.290
91306	10	10.974	1.675	91378	15	7.720	11.553	91450	11	20.302	20.084	91512	21	13.046	1.638	91584	145	17.616	8.480
91307	9	19.440	1.802	91379	28	9.328	11.088	91451	10	22.496	20.662	91513	13	16.161	1.948	91585	22	17.684	8.028
91308	19	24.854	1.392	91380	25	10.555	11.719	91452	120	1.986	21.019	91514	29	19.212	1.198	91586	25	18.734	8.160
91309	9	1.376	2.518	91381	35	19.980	11.534	91453	15	2.986	21.702	91515	12	20.310	1.987	91587	23	18.983	8.372
91310	17	11.104	2.879	91382	8	24.280	11.432	91454	11	5.950	21.404	91516	33	22.726	1.562	91588	32	23.117	8.187
91311	25	15.146	2.936	91383	9	2.340	12.678	91455	13	6.292	21.023	91517	24	0.724	2.694	91589	31	25.906	8.854
91312	12	22.570	2.350	91384	9	4.582	12.430	91456	21	10.706	21.868	91518	10	4.248	2.650	91590	19	1.022	9.980
91313	10	25.560	2.863	91385	14	13.908	12.490	91457	10	13.300	21.444	91519	31	5.154	2.686	91591	36	3.736	9.426
91314	24	10.638	3.057	91386	29	15.985	12.286	91458	50	21.664	21.086	91520	40	10.064	2.251	91592	14	4.878	9.030
91315	16	10.673	3.958	91387	25	17.534	12.790	91459	14	22.061	21.927	91521	15	12.240	2.410	91593	24	6.178	9.905
91316	77	14.835	3.524	91388	11	19.246	12.749	91460	61	22.296	21.294	91522	20	14.180	2.234	91594	12	7.139	9.706
91317	20	14.986	3.872	91389	10	21.228	12.830	91461	18	22.470	21.722	91523	12	15.176	2.528	91595	23	7.366	9.390
91318	18	16.292	3.442	91390	10	22.028	12.432	91462	21	22.815	21.734	91524	24	18.790	2.555	91596	10	7.504	9.146
91319	16	16.422	3.156	91391	13	24.146	12.027	91463	29	0.220	22.675	91525	13	24.372	2.911	91597	14	9.351	9.704
91320	42	20.068	3.977	91392	20	5.442	13.172	91464	33	0.254	22.676	91526	29	25.503	2.648	91598	21	14.021	9.482
91321	30	2.480	4.304	91393	26	6.792	13.294	91465	18	9.198	22.419	91527	15	1.135	3.597	91599	16	14.501	9.826
91322	16	3.320	4.292	91394	43	10.852	13.799	91466	10	13.610	22.804	91528	24	3.723	3.161	91600	9	15.182	9.716
91323	25	8.538	4.639	91395	15	11.910	13.719	91467	14	18.270	22.102	91529	10	5.616	3.838	91601	33	15.960	9.000
91324	9	14.785	4.550	91396	18	14.970	13.252	91468	53	19.070	22.746	91530	12	10.597	3.338	91602	16	16.618	9.290
91325	20	21.014	4.187	91397	37	18.113	13.152	91469	39	19.481	22.383	91531	18	12.492	3.198	91603	30	16.695	9.060
91326	10	22.706	4.622	91398	29	18.776	13.170	91470	11	0.118	23.384	91532	30	14.347	3.654	91604	22	17.596	9.023
91327	14	3.065	5.512	91399	30	21.129	13.505	91471	35	2.600	23.192	91533	10	14.770	3.891	91605	15	18.276	9.959
91328	18	3.097	5.486	91400	10	5.075	14.198	91472	23	7.124	23.010	91534	51	16.929	3.632	91606	10	19.780	9.181
91329	19	10.561	5.475	91401	37	18.183	14.267	91473	16	9.954	23.263	91535	10	21.816	3.650	91607	26	20.384	9.469
91330	18	14.822	5.539	91402	18	19.503	14.974	91474	41	12.520	23.566	91536	15	24.798	3.441	91608	24	22.989	9.662
91331	13	16.708	5.882	91403	8	20.600	14.392	91475	16	20.140	23.622	91537	13	0.056	4.804	91609	33	23.264	9.398
91332	22	10.224	6.705	91404	13	21.038	14.416	91476	33	6.112	24.726	91538	18	0.896	4.966	91610	13	1.306	10.542
91333	10	14.148	6.518	91405	30	21.532	14.356	91477	13	10.646	24.140	91539	12	2.988	4.702	91611	34	1.705	10.625
91334	8	16.572	6.194	91406	20	25.013	14.476	91478	36	13.548	24.738	91540	10	3.590	4.702	91612	30	2.934	10.336
91335	50	21.808	6.666	91407	10	1.402	15.218	91479	31	14.314	24.934	91541	32	4.530	4.729	91613	13	9.061	10.115
91336	15	2.230	7.598	91408	8	4.274	15.524	91480	14	20.026	24.622	91542	32	7.421	4.820	91614	53	13.714	10.829
91337	34	2.512	7.976	91409	10	5.508	15.546	91481	10	6.319	25.352	91543	10	12.350	4.618	91615	17	13.916	10.974
91338	14	6.991	7.020	91410	9	8.410	15.882	91482	44	16.292	25.938	91544	10	12.700	4.593	91616	35	19.700	10.790
91339	10	7.860	7.148	91411	21	19.252	15.427	91483	9	16.638	25.572	91545	34	13.206	4.942	91617	10	22.112	10.258
91340	35	7.862	7.718	91412	13	21.949	15.736	91484	12	18.484	25.296	91546	21	13.472	4.358	91618	43	22.820	10.634
91341	25	8.545	7.688	91413	63	23.186	15.195	91485	24	20.296	25.852	91547	21	17.904	4.520	91619	19	25.032	10.602
91342	12	12.070	7.345	91414	24	1.459	16.727	91486	25	22.850	25.219	91548	24	22.710	4.732	91620	26	1.955	11.192
91343	53	16.118	7.332	91415	23	3.617	16.696					91549	30	23.788	4.199	91621	18	2.574	11.752
91344	33	16.594	7.470	91416	37	6.120	16.900					91550	10	24.032	4.955	91622	41	3.160	11.038
91345	17	16.680	7.748	91417	28	15.228	16.430					91551	40	4.956	5.343	91623	22	5.488	11.614
91346	13	21.939	7.864	91418	21	16.546	16.323					91552	12	9.470	5.480	91624	30	10.908	11.122
91347	10	25.928	7.655	91419	15	18.442	16.932					91553	10	10.768	5.406	91625	18	16.028	11.614
91348	11	25.965	7.858	91420	39	0.562	17.354					91554	28	16.246	5.677	91626	22	17.685	11.125
91349	26	5.175	8.400	91421	10	2.220	17.028					91555	10	7.806	6.376	91627	48	22.154	11.915
91350	9	7.538	8.509	91422	15	11.347	17.138					91556	12	8.932	6.603	91628	25	23.366	11.350
91351	11	12.179	8.722	91423	16	22.314	17.827					91557	35	10.356	6.494	91629	24	25.346	11.750
91352	26	15.754	8.862	91424	18	22.481	17.134					91558	33	11.256	6.644	91630	19	0.336	12.784
91353	8	17.200	8.318	91425	20	23.508	17.416					91559	10	15.500	6.207	91631	23	2.448	12.348
91354	43	17.800	8.956	91426	22	24.522	17.392					91560	39	15.846	6.353	91632	10	3.944	12.781
91355	29	19.011	8.940	91427	17	1.789	18.728					91561	30	17.869	6.429	91633	30	8.464	12.516
91356	19	8.080	9.788	91428	35	2.590	18.617					91562	36	22.114	6.039	91634	14	9.732	12.512
91357	10	9.495	9.660	91429	21	3.381	18.413					91563	10	23.721	6.201	91635	10	14.704	12.122
91358	10	10.926	9.721	91430	21	3.458	18.846					91564	48	0.020	7.022	91636	15	21.827	12.740
91359	9	11.268	9.318	91431	15	7.014	18.234					91565	18	4.164	7.950	91637	30	22.302	12.947
91360	22	19.794	9.810	91432	39	7.912	18.968					91566	10	5.335	7.735	91638	15	22.881	12.388
91361	11	22.756	9.639	91433	19	8.246	18.960					91567	10	7.218	7.664	91639	13	23.214	12.678
91362	32	25.480	9.126	91434	10	8.547	18.902					91568	21	8.246	7.232	91640	13	24.286	12.715
91363	13	8.196	10.603	91435	20	24.790	18.952					91569	15	8.452	7.737	91641	12	5.350	13.300
91364	10	9.931	10.830	91436	16	25.656	18.460					91570	47	10.576	7.684	91642	21	8.300	13.853
91365	34	14.104	10.232	91437	21	2.510	19.779					91571	29	11.032	7.986	91643	11	14.358	13.750
91366	17	14.473	10.262	91438	10	3.054	19.570					91572	22	11.706	7.832	91644	29	16.292	13.659
91367	11	17.403	10.426	91439	11	4.588	19.108					91573	10	14.592	7.606	91645	38	18.750	13.660
91368	30	19.202	10.676	91440	19	5.168	19.366					91574	14	18.546	7.414	91646	21	20.965	13.118
91369	48	19.983	10.552	91441	47	5.866	19.154					91575	17	19.188	7.209	91647	25	23.899	13.294
91370	28	23.432	10.294	91442	15	8.733	19.552					91576	10	24.680					



				R.A. 23 <sup>h</sup> 24 <sup>m</sup>							
				Plate 1766 ; 1920 Dec. 9.							
				Provisional Constants.							
				A B C							
				-0.1730 +0.1287 -1.836							
				D E F							
				-0.1300 -0.1754 -0.412							
				Mag. = 17.2 - 1.05√d							
				No.	d	x	y				
91655	17	23.032	14.685	91727	16	15.400	20.820	91856	16	4.172	8.252
91656	10	23.214	14.994	91728	19	20.290	20.138	91857	19	6.449	8.386
91657	26	24.027	14.659	91729	13	20.634	20.774	91858	12	11.046	8.130
91658	11	24.084	14.894	91730	24	23.092	20.646	91859	13	19.869	8.816
91659	60	25.650	14.535	91731	54	0.101	21.444	91860	71	23.360	8.224
91660	12	0.768	15.258	91732	63	0.734	21.642	91861	57	24.840	8.570
91661	80	1.529	15.528	91733	19	0.934	21.036	91862	18	0.763	9.794
91662	26	5.234	15.102	91734	14	0.967	21.929	91863	29	1.033	9.526
91663	34	6.796	15.582	91735	10	11.935	21.555	91864	41	9.960	9.240
91664	10	6.823	15.066	91736	18	15.580	21.280	91865	48	10.533	9.107
91665	24	7.306	15.500	91737	37	17.804	21.644	91866	47	11.620	9.250
91666	47	8.180	15.680	91738	31	20.048	21.520	91867	19	13.790	9.966
91667	24	11.080	15.828	91739	23	21.591	21.894	91868	49	15.050	9.272
91668	10	15.060	15.210	91740	20	24.226	21.056	91869	31	15.960	9.654
91669	31	17.812	15.839	91741	22	0.518	22.279	91870	9	16.400	9.008
91670	26	18.895	15.050	91742	27	0.924	22.067	91871	30	17.359	9.800
91671	31	19.234	15.502	91743	32	1.268	22.075	91872	16	18.856	9.791
91672	16	20.068	15.528	91744	10	3.510	22.987	91873	9	20.577	9.615
91673	23	20.105	15.610	91745	28	8.192	22.504	91874	16	23.446	9.421
91674	21	0.312	16.090	91746	19	12.246	22.009	91875	24	25.418	9.276
91675	23	11.196	16.282	91747	10	12.737	22.706	91876	51	0.608	10.770
91676	36	13.944	16.790	91748	11	15.580	22.340	91877	14	2.820	10.700
91677	35	22.472	16.988	91749	13	17.400	22.908	91878	10	10.508	10.270
91678	28	22.475	16.665	91750	46	18.016	22.832	91879	40	13.574	10.072
91679	12	23.786	16.894	91751	12	19.172	22.977	91880	52	14.210	10.816
91680	19	25.686	16.499	91752	17	21.681	22.520	91881	40	14.298	10.982
91681	24	0.862	17.480	91753	34	23.264	22.804	91882	23	16.875	10.597
91682	27	1.894	17.746	91754	18	3.928	23.115	91883	17	18.075	10.368
91683	31	2.906	17.706	91755	30	4.648	23.615	91884	24	18.088	10.421
91684	15	8.743	17.742	91756	10	6.226	23.738	91885	15	19.839	10.692
91685	39	10.654	17.514	91757	10	8.189	23.322	91886	19	1.170	11.478
91686	14	12.682	17.102	91758	12	8.810	23.370	91887	19	3.155	11.841
91687	45	13.080	17.354	91759	10	13.146	23.089	91888	27	4.597	11.496
91688	27	14.799	17.663	91760	30	13.628	23.035	91889	25	12.063	11.674
91689	37	23.148	17.519	91761	14	18.830	23.011	91890	47	13.033	11.298
91690	11	24.783	17.772	91762	25	19.114	23.938	91891	21	15.371	11.808
91691	23	25.923	17.441	91763	26	20.425	23.146	91892	15	18.416	11.346
91692	11	0.476	18.488	91764	12	22.715	23.584	91893	27	19.930	11.040
91693	22	0.706	18.176	91765	33	23.942	23.196	91894	15	9.370	12.444
91694	14	0.814	18.038	91766	20	24.762	23.228	91895	16	10.372	12.340
91695	13	2.857	18.162	91767	24	5.102	24.516	91896	58	10.666	12.822
91696	28	4.056	18.755	91768	26	6.854	24.914	91897	11	17.967	12.664
91697	12	4.933	18.890	91769	22	7.138	24.300	91898	18	18.616	12.278
91698	13	7.664	18.045	91770	18	9.581	24.844	91899	27	22.354	12.450
91699	29	8.128	18.734	91771	34	9.960	24.871	91900	25	0.133	13.089
91700	14	9.297	18.752	91772	12	10.464	24.470	91901	18	1.734	13.412
91701	44	10.210	18.478	91773	11	10.565	24.046	91902	14	3.117	13.432
91702	16	10.870	18.950	91774	12	12.028	24.100	91903	16	4.916	13.090
91703	12	11.940	18.021	91775	15	15.562	24.164	91904	16	6.645	13.444
91704	27	13.426	18.305	91776	10	15.900	24.462	91905	31	14.610	13.984
91705	11	13.796	18.724	91777	21	16.200	24.435	91906	26	16.180	13.627
91706	32	14.122	18.924	91778	37	18.731	24.803	91907	18	1.886	14.774
91707	10	17.872	18.666	91779	59	22.630	24.334	91908	72	3.500	14.621
91708	22	22.861	18.919	91780	20	23.192	24.090	91909	113	3.965	14.950
91709	20	24.402	18.346	91781	33	1.359	25.560	91910	14	6.882	14.024
91710	12	25.749	18.721	91782	13	7.600	25.459	91911	72	14.590	14.048
91711	28	3.200	19.264	91783	48	17.621	25.408	91912	10	17.178	14.408
91712	30	5.406	19.042	91784	10	17.658	25.223	91913	13	20.558	14.187
91713	25	8.999	19.636	91785	19	17.874	25.912	91914	15	6.825	15.876
91714	34	9.841	19.909	91786	27	18.502	25.006	91915	14	7.919	15.134
91715	12	12.444	19.330					91916	26	14.265	15.516
91716	31	14.752	19.071					91917	16	14.840	15.350
91717	10	15.363	19.738					91918	42	22.057	15.394
91718	12	17.755	19.620					91919	17	0.370	16.804
91719	11	17.762	19.424					91920	12	3.578	16.588
91720	29	19.725	19.768					91921	57	7.126	16.218
91721	31	20.587	19.615					91922	26	13.780	16.200
91722	46	21.734	19.535					91923	14	14.672	16.962
91723	10	23.354	19.500					91924	24	17.234	16.806
91724	10	24.876	19.466					91925	14	20.084	16.570
91725	25	6.044	20.782					91926	37	24.857	16.404
91726	31	12.674	20.834					91927	36	0.370	17.128



R.A. 23 <sup>h</sup> 32 <sup>m</sup>				R.A. 23 <sup>h</sup> 40 <sup>m</sup>				R.A. 23 <sup>h</sup> 48 <sup>m</sup>			
Plate 1754; 1920 Dec. 6.				Plate 1761; 1920 Dec. 8				Plate 1757; 1920 Dec. 7.			
Provisional Constants.				Provisional Constants.				Provisional Constants.			
A B C -01724 +01137 -4472				A B C -01770 +00834 -2750				A B C -01753 +00731 -0617			
D E F -01189 -01772 -0302				D E F -00822 -01742 -0941				D E F -00732 -01750 -1568			
Mag.=16.1-1.05√d				Mag =16.2-1.05√d				Mag.=16.0-1.05√d			
No.	d	x	y	No.	d	x	y	No.	d	x	y
92001	32	8.398	0.718	92151*	56	3.478	0.305	92301	16	2.976	0.716
92002	33	20.168	0.798	92152	18	7.794	0.239	92302	24	4.996	0.067
92003	41	25.487	0.122	92153	19	8.808	0.576	92303	32	3.495	1.798
92004	20	14.897	1.596	92154	29	16.569	0.260	92304	20	3.702	1.922
92005	18	15.156	1.460	92155	18	17.963	0.099	92305	14	3.900	1.591
92006	10	16.078	1.337	92156	14	24.930	0.618	92306	12	5.785	1.862
92007	28	17.355	1.742	92157	20	6.943	1.930	92307	13	6.492	1.576
92008	27	22.193	1.966	92158	22	13.176	1.960	92308	10	0.235	2.179
92009	10	3.284	2.420	92159	26	16.472	1.150	92309	15	1.252	2.462
92010*	37	14.046	2.818	92160	36	17.182	1.780	92310	29	6.518	2.864
92011	26	14.214	2.053	92161	37	20.254	1.449	92311	11	19.142	2.548
92012	31	14.996	2.070	92162	30	25.440	1.705	92312	15	20.780	2.113
92013	19	9.480	3.948	92163	14	25.644	1.832	92313	35	3.632	3.808
92014	8	10.080	3.672	92164	8	25.841	1.505	92314	34	9.384	3.684
92015	15	17.574	3.768	92165	28	0.204	2.180	92315	14	9.525	3.558
92016*	28	20.660	3.954	92166	21	8.600	2.055	92316	10	10.066	3.258
92017	14	20.798	3.646	92167	15	23.188	2.344	92317	14	19.666	3.378
92018	12	25.100	3.926	92168	14	19.242	3.918	92318*	36	22.614	3.865
92019*	46	0.638	4.068	92169	34	25.557	3.716	92319*	34	1.235	4.341
92020	19	11.138	4.971	92170*	57	3.040	4.570	92320	24	4.466	4.049
92021*	48	25.012	4.383	92171	15	3.128	4.114	92321	26	11.015	4.975
92022	31	1.370	5.057	92172	11	12.410	4.200	92322	10	12.940	4.470
92023	14	5.075	5.628	92173	13	15.606	4.832	92323	27	21.028	4.696
92024	19	8.006	5.694	92174	16	16.670	4.192	92324*	40	22.191	4.824
92025	18	9.256	5.972	92175*	48	17.400	4.486	92325	21	23.506	4.822
92026	15	20.162	5.027	92176	17	17.556	4.050	92326	25	2.624	5.518
92027	16	13.298	6.057	92177*	41	23.150	4.219	92327	10	12.967	5.854
92028	16	14.188	6.896	92178	10	5.526	5.454	92328	23	16.886	5.531
92029	17	21.256	6.702	92179	31	5.809	5.942	92329	10	16.979	5.066
92030	23	1.585	7.649	92180	28	8.421	5.870	92330	19	18.850	5.406
92031*	34	8.774	7.945	92181	30	9.099	5.162	92331	11	20.356	5.297
92032	28	21.892	7.936	92182	10	13.195	5.965	92332	11	20.428	5.322
92033*	55	1.012	8.522	92183	29	14.273	5.900				
92034*	43	2.496	8.852	92184	34	16.947	5.174				
92035	11	11.802	8.158	92185	19	17.950	5.016				
92036	9	13.794	8.823	92186	23	24.528	5.415				
92037	14	14.988	8.765	92187*	43	11.322	6.383				
92038	17	22.402	8.278	92188	25	15.186	6.176				
92039*	41	23.992	8.208	92189	16	16.960	6.350				
92040	19	24.334	8.619	92190	17	7.606	7.633				
92041	9	1.118	9.716	92191	17	13.710	7.790				
92042	19	3.086	9.548	92192	17	15.291	7.892				
92043*	46	5.286	9.434	92193	30	17.418	7.260				
92044	18	10.692	9.902								
92045	17	10.906	9.254								
92046	11	13.580	9.310								
92047	10	13.762	9.676								
92048*	48	25.018	9.253								
92049	22	4.684	10.584								
92050	21	9.989	10.361								
92051	17	0.060	12.758								
92052	10	6.222	12.105								
92053	11	6.224	12.182								
92054	14	7.568	12.070								
92055	12	13.494	12.232								
92056	11	18.287	12.526								
92057	20	20.084	12.740								
92058*	45	23.796	12.725								
92059	18	5.176	13.297								
92060	18	9.220	13.192								
92061	29	12.657	13.110								
92062*	41	13.692	13.276								
92063	11	15.837	13.870								
92064	27	17.306	13.712								
92065*	38	18.737	13.892								
92066	17	19.570	13.400								
92067	10	24.564	13.562								
92068	16	24.809	13.704								
92069	12	25.118	13.602								
92070	30	5.782	14.362								
92071	16	6.197	14.919								
92072	20	10.020	14.850								
92073	20	17.366	14.692								
92074	13	24.860	14.408								
92075	15	4.173	15.562								
92076	9	4.411	15.272								
92077	30	7.884	15.530								
92078	28	10.221	15.202								
92079	12	12.126	15.906								
92080	24	17.220	15.046								
92081	12	19.815	15.984								
92082	21	22.802	15.772								
92083	28	24.258	15.569								
92084	26	2.607	16.684								
92085	8	6.804	16.132								
92086	14	15.820	16.996								
92087	23	23.212	16.028								
92088	16	0.506	17.858								
92089	12	1.092	17.311								
92090	10	4.542	17.738								
92091	10	5.984	17.486								
92092	17	9.826	17.017								
92093	14	14.454	17.882								
92094*	59	16.602	17.522								
92095	17	22.367	17.658								
92096	17	25.712	17.384								
92097	21	1.312	18.396								
92098*	144	1.686	18.266								
92099	24	12.604	18.340								
92100	32	12.750	18.312								
92101	16</										



92333	28	24.996	5.290	92395	13	5.506	19.756	92454*	43	9.982	0.510	92516*	33	13.828	7.034	92578	15	11.370	17.937
92334	17	16.254	6.173	92396	14	13.490	19.852	92455	22	12.796	0.332	92517	28	16.666	7.164	92579	17	15.236	17.928
92335	28	18.676	6.103	92397	18	15.804	19.336	92456	19	16.655	0.438	92518*	90	17.798	7.862	92580*	41	15.726	17.608
92336	10	16.906	7.032	92398	31	0.504	20.760	92457*	31	16.893	0.754	92519	21	20.610	7.606	92581	10	17.176	17.488
92337*	51	17.795	7.798	92399	13	6.437	20.698	94458	33	17.012	0.236	92520	19	21.805	7.461	92582	10	19.474	17.708
92338	10	5.856	8.410	92400	13	19.106	20.018	92459	32	17.214	0.538	92521	27	24.288	7.066	92583	35	20.922	17.666
92339	12	25.704	8.034	92401	12	1.433	21.730	92460*	39	22.310	0.620	92522	21	25.060	7.338	92584	11	22.008	17.658
92340	11	6.290	9.768	92402	30	5.342	21.748	92461*	47	23.080	0.308	92523	17	3.616	8.314	92585*	37	22.522	17.941
92341*	35	13.976	9.924	92403	32	9.299	21.831	92462*	48	8.320	1.898	92524	11	13.176	8.150	92586	20	22.657	17.784
92342	22	14.048	9.103	92404	34	10.852	21.922	92463*	44	9.524	1.511	92525	18	14.895	8.336	92587	10	25.432	17.032
92343	19	17.864	9.418	92405	23	14.910	21.509	92464	13	10.500	1.320	92526	15	25.517	8.040	92588	20	6.578	18.448
92344	10	18.036	9.380	92406	13	17.312	21.862	92465	22	14.027	1.774	92527*	40	0.133	9.716	92589*	39	8.152	18.601
92345*	41	22.196	9.366	92407	10	17.408	21.198	92466	20	16.094	1.288	92528	20	1.690	9.434	92590*	40	9.939	18.188
92346	25	23.756	9.114	92408	33	25.008	21.054	92467	9	1.430	2.241	92529	20	6.802	9.290	92591	18	21.340	18.092
92347	12	3.230	10.492	92409	15	6.230	22.829	92468	11	5.194	2.924	92530	17	16.593	9.528	92592	14	22.768	18.613
92348*	82	5.618	10.103	92410	14	8.738	22.195	92469	23	14.824	2.399	92531	20	21.484	9.860	92593	18	3.600	19.222
92349	13	6.412	10.764	92411	25	12.446	22.238	92470	21	15.314	2.952	92532	31	24.500	9.783	92594	38	9.629	19.289
92350	32	7.363	10.092	92412	15	12.892	22.472	92471	32	19.415	2.207	92533	15	25.864	9.772	92595	9	14.215	19.349
92351	33	19.366	10.694	92413	24	18.501	22.740	92472	20	20.395	2.949	92534	27	4.064	10.330	92596	16	19.110	19.542
92352	16	2.084	12.058	92414	15	1.248	23.397	92473*	55	6.364	3.376	92535	15	5.233	10.817	92597	23	19.178	20.432
92353*	40	2.521	12.624	92415	18	2.187	23.879	92474	11	9.746	3.806	92536	9	11.620	10.978	92598	30	3.266	21.342
92354	28	9.973	12.364	92416	31	2.764	23.342	92475	13	11.786	3.450	92537*	51	5.166	11.254	92599	17	8.138	21.868
92355	18	12.348	12.964	92417	10	2.798	23.076	92476	19	13.307	3.117	92538*	34	5.401	11.014	92600	15	16.628	21.305
92356	10	18.592	12.682	92418	15	5.774	23.221	92477	17	13.730	3.300	92539	18	11.612	11.196	92601	34	17.480	21.930
92357*	40	20.565	12.755	92419*	40	6.260	23.102	92478	20	14.071	3.498	92540	9	18.559	11.520	92602	31	17.884	21.730
92358	29	2.014	13.796	92420	24	9.850	23.445	92479	14	16.216	3.160	92541	10	23.655	11.650	92603	16	20.936	21.836
92359*	37	3.605	13.311	92421	21	17.862	23.940	92480	13	16.890	3.574	92542	10	4.536	12.038	92604	16	21.404	21.073
92360	18	4.465	13.354	92422	35	18.376	23.675	92481	35	21.620	3.105	92543*	44	12.257	12.378	92605	22	22.939	21.876
92361	10	5.208	13.290	92423*	60	18.412	23.534	92482	15	23.024	3.601	92544	30	15.716	12.893	92606	9	25.120	21.725
92362	22	12.262	13.580	92424	16	19.728	23.025	92483	11	23.414	3.958	92545	18	21.052	12.757	92607	29	6.332	22.936
92363*	55	14.145	13.384	92425	31	23.283	23.039	92484	20	23.852	3.328	92546	17	8.732	13.969	92608	10	8.639	22.960
92364	29	16.784	13.350	92426	22	25.232	23.934	92485*	39	25.574	3.288	92547	19	20.102	13.420	92609	18	9.113	22.381
92365	10	17.472	13.332	92427	29	25.580	23.168	92486*	36	0.441	4.208	92548*	41	21.642	13.954	92610	24	11.288	22.244
92366	11	5.092	14.808	92428*	47	12.263	24.756	92487	11	2.933	4.386	92549	18	23.508	13.870	92611	20	15.976	22.556
92367	19	6.700	14.424	92429	12	13.261	24.417	92488	17	9.634	4.678	92550	11	25.020	13.486	92612	21	18.324	22.546
92368	13	18.350	14.210	92430	12	19.395	24.982	92489	11	11.401	4.108	92551	30	4.612	14.796	92613	15	21.510	22.841
92369	10	8.667	15.194	92431	14	9.834	25.968	92490	17	12.730	4.233	92552*	47	7.274	14.847	92614	9	22.625	22.368
92370	26	11.796	15.150	92432	21	12.844	25.286	92491	17	17.633	4.212	92553	28	8.013	14.073	92615	58	24.542	22.743
92371	26	15.883	15.896	92433	27	13.796	25.199	92492	11	20.335	4.069	92554	20	23.771	14.721	92616	26	1.504	23.364
92372*	40	8.384	16.554					92493	32	21.516	4.359	92555	41	23.886	14.468	92617	25	3.804	23.447
92373	13	16.326	16.264					92494	11	23.914	4.984	92556	18	24.834	14.762	92618	20	11.868	23.137
92374	23	20.759	16.296					92495	25	23.988	4.568	92557	10	24.904	14.371	92619*	45	13.271	23.923
92375	37	2.270	17.934					92496*	39	0.037	5.176	92558	18	4.307	15.425	92620	16	21.528	23.986
92376	11	2.785	17.136					92497	18	1.354	5.147	92559	17	4.366	15.490	92621	21	3.470	24.218
92377*	48	4.850	17.764					92498	26	2.852	5.584	92560	10	5.640	15.530	92622	19	6.200	24.759
92378	10	5.674	17.193					92499	29	7.038	5.796	92561	18	6.348	15.038	92623	28	7.183	24.085
92379	21	15.889	17.664					92500	22	9.727	5.606	92562*	48	12.962	15.694	92624	21	11.514	24.386
92380	11	17.316	17.520					92501	13	10.145	5.346	92563	10	17.394	15.839				
92381	10	17.403	17.279					92502	22	14.530	5.676	92564	28	21.141	15.873				
92382	32	17.585	17.364					92503	14	18.418	5.060	92565	30	22.176	15.472				
92383	25	17.710	17.238					92504	21	23.448	5.612	92566	39	24.106	15.687				
92384	10	20.199	17.968					92505	26	23.791	5.223	92567	41	24.341	15.648				
92385	10	22.496	17.704					92506	24	24.546	5.264	92568	14	24.400	15.202				
92386	10	22.844	17.622					92507	17	13.118	6.176	92569	26	24.748	15.754				
92387*	80	23.902	17.082					92508	21	14.080	6.677	92570	14	9.368	16.529				
92388	30	14.825	18.422					92509	9	16.171	6.356	92571	25	24.162	16.258				
92389*	57	19.524	18.510					92510	13	16.625	6.404	92572	17	24.368	16.243				
92390	10	20.384	18.560					92511	21	17.500	6.536	92573	14	25.787	16.798				
92391	12	25.465	18.940					92512	9	0.349	7.512	92574*	74	1.994	17.397				
92392	20	0.662	19.339					92513*	40	6.057	7.786	92575	18	4.366	17.354				
92393*	41	1.748	19.458					92514*	64	8.038	7.784	92576	26	5.987	17.896				
92394	14	4.528	19.596					92515*	38	9.480	7.848	92577	20	7.575	17.152				

**R.A. 23<sup>h</sup> 56<sup>m</sup>**

Plate 1755; 1920 Dec. 6.

*Provisional Constants.*

A	B	C
-0.1758	+0.1543	-1.433
D	E	F
-0.1555	-0.1748	+0.184

**Mag. = 16.2 - 1.05√d**

No	d	x	y
92451	24	1.832	0.246
92452	14	5.672	0.326
92453	12	9.510	0.509



NIZAMIAH OBSERVATORY, HYDERABAD

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ASTROGRAPHIC CATALOGUE, 1900-0

ZONE  $-21^{\circ}$

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STANDARD CO-ORDINATES

OF

THE STARS IN THE CATALOGUE OF  
THE ASTRONOMISCHE GESELLSCHAFT (ALGIERS)



*Hyderabad Number.*—This is the number assigned in the preceding Catalogue of measures of plates taken at Hyderabad. Some stars occur on two plates, and in this case they have a separate Hyderabad number for each plate—thus, Algiers 39 is Hyderabad  $-21^{\circ}$ , 98, as well as  $-21^{\circ}$ , 305. Occasionally, owing to slight errors of centering the plate, a star will fall outside the réseau, so that no number can be assigned on such a plate, but the star will occur on an adjacent plate with a Hyderabad number.

*Algiers Number and Magnitude.*—These are taken direct from the Algiers Astronomische Gesellschaft Catalogue and require no explanation.

*Standard Co-ordinates.*—This name was first proposed in *M.N.R.A.S.*, vol. liv. p. 11, and has generally been adopted for the rectangular co-ordinates of a star on an ideal plate fulfilling the following conditions :—

- (i) Plate truly centred and oriented for 1900.0.
- (ii) No refraction and aberration.
- (iii) A suitable unit of length adopted.

The formulæ giving these co-ordinates are—

$$\begin{aligned}\xi &= k \cdot \tan(\alpha - A) \cdot \sec(\theta - D) \cdot \cos \theta, \\ \eta &= k \cdot \tan(\theta - D), \\ \tan \theta &= \sec(\alpha - A) \cdot \tan \delta,\end{aligned}$$

where

$\alpha$ ,  $\delta$  are the R.A. and Declination of the star,  
 $A$ ,  $D$  those of the plate centre,

and  $k$  depends on the adopted unit of length. For the Astrographic Catalogue the unit chosen is 5' at the plate centre, and  $k=687.54985$ .

For the computation of  $\xi$ ,  $\eta$ , for each star, approximate formulæ were used, and reduced to tables. To avoid negative signs the constant 13.0000 has been added to all the values of  $\xi$ ,  $\eta$  to form

$$\xi' = \xi + 13, \eta' = \eta + 13,$$

and the quantities  $\xi'$ ,  $\eta'$  are given in the following pages. The co-ordinates are thus referred to a corner of the réseau and not to the plate centre.

The Right Ascensions and Declinations used are those given in the Catalogue for 1900.0 without any application of proper motions, so that the co-ordinates printed in the following Catalogue represent simply the places given in the Algiers Meridian Catalogue.

For determining plate constants, stars known or suspected to have sensible proper motions, have been excluded from the solution. A few stars whose catalogue places appeared to be erroneous, have also been omitted.



Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.	
Hyd.	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'.	η'.
R.A. 0 <sup>h</sup> 4 <sup>m</sup>					R.A. 0 <sup>h</sup> 36 <sup>m</sup> (continued)					R.A. 1 <sup>h</sup> 0 <sup>m</sup> (continued)				
I	9994	8.7	0.2780	0.9753	829	155	8.9	8.1870	5.9270	1590	272	9.1	11.8880	18.1448
112	9995	9.3	0.4503	18.6058	919	159	9.0	11.4573	19.5042	1596	275	8.9	12.4990	19.2863
2	9996	8.7	1.0619	0.6654	833	162	9.2	13.8942	5.9423	1582	277	7.5	12.8192	16.2327
19	2	9.0	3.5915	3.6840	867	163	7.5	14.4368	11.1838	1524	278	8.7	13.8933	5.6909
147	4	9.0	5.8037	25.7143	821	165	9.0	16.9915	4.2011	1504	279	9.0	15.0873	2.2726
124	7	9.3	6.5387	20.6551	879	166	8.8	17.6795	11.8244	1510	281	8.8	16.2215	2.4727
34	8	9.0	6.6618	6.6567	815	167	9.0	17.7148	3.1555	1534	283	8.7	16.8320	8.1417
119	15	9.1	10.9779	20.0705	880	170	9.0	18.0118	11.9003	1535	285	8.8	17.4542	8.1197
141	17	8.5	11.0717	24.5995	899	172	9.2	18.4034	15.1060	1559	287	9.0	20.7911	12.1477
142	21	8.8	14.3716	24.2602	927	176	8.7	20.8573	20.4384	1629	293	8.9	22.8585	25.7013
42	24	8.8	16.0206	7.4804	881	177	8.8	21.2076	12.3887	1548	296	9.1	24.5676	10.1338
137	27	8.3	19.1629	22.6684	869	178	8.9	21.3342	10.5622	R.A. 1 <sup>h</sup> 8 <sup>m</sup>				
24	32	8.9	20.7078	4.1228	928	179	8.9	21.3133	20.5556	1746	296	9.1	2.1236	10.1296
93	39	7.5	24.7909	15.1542	884	183	8.6	23.9202	11.6303	.	298	8.7	3.5301	0.1181
R.A. 0 <sup>h</sup> 12 <sup>m</sup>					955	184	8.9	24.0034	24.4723	1748	299	9.1	4.2424	10.0318
305	39	7.5	2.4095	15.1466	R.A. 0 <sup>h</sup> 44 <sup>m</sup>					1721	302	9.4	5.8811	7.9151
350	44	7.3	5.4119	21.9723	1100	183	8.6	1.4948	11.6340	1675	306	9.1	8.8908	2.3788
285	53	9.1	9.8131	12.6685	1219	184	8.9	1.7387	24.4739	1771	307	9.0	9.2148	12.5710
203	54	8.6	11.0248	0.4117	1158	187	8.9	3.6689	18.4939	1687	309	8.9	9.6889	3.3024
307	56	9.2	11.4109	14.9067	1192	189	9.0	3.9948	22.1904	1773	313	7.6	12.1938	12.8665
272	60	6.9	11.9799	10.1900	1131	190	8.7	5.2656	15.5312	1726	315	9.0	15.2226	7.5230
347	66	7.3	16.4062	21.3301	1211	191	9.0	5.5022	24.0124	1776	317	8.6	15.7808	13.5305
355	67	9.1	16.7430	22.2253	1080	192	8.8	5.6302	8.7242	1767	318	9.3	17.9914	11.8436
263	70	9.0	19.5122	9.1843	1002	195	8.9	6.5571	0.7087	1689	321	8.9	19.1637	3.5869
227	73	9.0	20.6249	3.2930	1074	196	8.8	6.6083	7.0403	1815	324	9.1	20.8839	18.0985
249	76	8.0	23.7249	6.8438	1147	199	8.9	8.0262	18.0004	1697	327	8.8	22.0466	5.0097
R.A. 0 <sup>h</sup> 20 <sup>m</sup>					1075	200	8.7	8.3898	7.1366	1871	328	8.7	22.2944	25.1623
452	76	8.0	1.2397	6.8501	1046	206	8.9	13.0216	4.0345	1744	330	8.7	23.8649	8.6445
469	77	6.2	3.7611	8.3760	1194	207	6.9	13.4460	21.3475	R.A. 1 <sup>h</sup> 16 <sup>m</sup>				
482	78	9.1	4.7489	9.9320	1161	208	9.3	13.5915	18.3649	1939	330	8.7	1.4022	8.6492
535	83	9.2	8.5557	16.0176	1215	210	8.6	13.9977	24.3190	1997	337	9.1	4.7382	22.0487
448	85	9.0	12.2417	5.8547	1185	212	8.6	15.1371	21.0850	1911	338	9.1	5.0830	3.0578
455	88	8.7	12.7031	6.9731	1152	214	8.9	18.4866	18.0644	1946	339	8.0	6.3443	9.6174
458	91	8.0	14.6108	6.8408	1225	215	8.9	19.6393	25.0319	1913	341	9.0	6.7844	4.0595
449	97	9.2	17.2227	5.4278	1008	219	8.7	21.7448	0.6068	1958	342	8.9	6.9118	14.3358
538	99	8.7	18.1800	15.6259	1189	220	8.2	22.1720	20.8266	1979	345	9.0	10.5613	18.3085
525	100	8.8	18.7162	13.7995	1069	221	8.1	23.0543	6.2855	1954	346	7.4	10.8830	12.9566
486	102	7.2	20.2600	9.2751	1173	222	8.3	22.9940	19.4768	1934	347	8.1	11.9670	6.6028
596	105	8.9	21.4867	23.1883	1227	224	7.3	23.4141	24.8003	2007	349	9.0	15.6482	24.2107
509	106	6.4	22.3538	11.6473	R.A. 0 <sup>h</sup> 52 <sup>m</sup>					2013	352	8.3	16.5661	25.6954
427	110	9.1	24.8772	2.0589	1300	221	8.1	0.5621	6.3000	1908	354	8.9	17.1508	2.2287
R.A. 0 <sup>h</sup> 28 <sup>m</sup>					1411	222	8.3	0.6669	19.4918	1976	357	9.0	17.9255	17.4676
655	110	9.1	2.3320	2.0516	1465	224	7.3	1.1536	24.8096	2008	358	8.0	18.3336	24.4023
760	113	8.7	5.0821	25.2096	1443	228	8.5	4.6252	23.0134	1971	359	8.0	18.7270	16.1260
674	115	8.9	5.5129	5.8527	1469	232	8.5	6.7003	25.2007	1995	361	7.6	19.3046	20.8112
755	117	8.6	7.9427	23.8462	1381	238	8.6	10.6004	15.9336	1951	364	9.1	20.2193	11.1244
675	122	9.1	12.1768	5.3386	1296	239	9.2	11.7600	5.8909	1909	365	8.8	20.3663	2.3817
656	127	8.6	13.8507	1.5894	1257	240	8.5	11.7687	0.8285	1910	370	8.5	22.8116	1.7012
700	132	9.2	18.9925	11.5520	1305	243	8.9	14.9272	7.0539	1990	372	8.9	23.7227	20.4485
719	138	8.0	21.7113	16.7418	1384	245	7.8	15.9351	15.5907	R.A. 1 <sup>h</sup> 24 <sup>m</sup>				
759	139	8.8	21.9332	24.4171	1433	246	8.7	16.4548	21.6361	2056	370	8.5	0.2620	1.7188
664	143	8.8	24.9004	4.2242	1342	247	8.9	16.8925	11.3059	2192	372	8.9	1.4078	20.4540
662	144	8.1	25.3454	2.4249	1270	249	7.0	18.0670	3.0775	2061	378	8.3	7.3792	2.9545
R.A. 0 <sup>h</sup> 36 <sup>m</sup>					1360	253	9.0	21.3738	12.9876	2142	380	7.3	8.0668	13.1361
816	143	8.8	2.3824	4.2165	1419	255	8.8	21.8538	20.2202	2134	382	7.8	9.0728	11.4636
811	144	8.1	2.8048	2.4119	1345	256	8.8	22.4943	10.7879	2080	385	8.8	10.8379	4.9156
950	145	9.0	4.9293	24.5368	..	257	8.2	22.9433	0.1499	2135	386	7.6	10.8516	12.4143
941	146	8.3	5.3435	21.9409	1325	261	7.4	23.5315	8.5826	2232	387	8.6	11.1245	25.9156
891	147	8.9	5.3993	14.0825	R.A. 1 <sup>h</sup> 0 <sup>m</sup>					2071	390	9.0	14.4578	3.7408
865	148	6.5	6.0931	11.1759	1549	256	8.8	0.0585	10.8093	2083	392	9.0	15.1549	5.0202
825	149	8.6	6.3287	4.5162	.	257	8.2	0.3743	0.1659	2065	394	8.6	16.3522	2.3925
925	150	8.7	6.7700	20.0924	1539	261	7.4	1.0681	8.5912	2196	398	8.7	19.5586	20.6220
946	153	9.0	7.5646	22.9421	1501	263	8.5	4.1172	0.4562	2228	399	9.2	19.6379	25.2753
853	154	8.6	7.9178	8.6588	1513	264	8.7	5.0694	3.4896	2085	401	8.8	20.2798	4.8388
					1569	267	8.8	6.8085	13.8980	2157	407	9.1	22.7119	15.6576



Reference No.		Mag.	Standard co-ordinates, 1900-0		Reference No.		Mag.	Standard co-ordinates, 1900-0		Reference No.		Mag.	Standard co-ordinates, 1900-0	
Hyd	Algiers		ξ'	η'	Hyd	Algiers		ξ'	η'	Hyd	Algiers		ξ'	η'
<b>R.A. 1<sup>h</sup> 24<sup>m</sup> (continued)</b>					<b>R.A. 1<sup>h</sup> 56<sup>m</sup> (continued)</b>					<b>R.A. 2<sup>h</sup> 20<sup>m</sup> (continued)</b>				
2068	408	8.7	22.9956	2.4886	3100	535	8.8	14.6729	17.5982	3638	654	6.7	18.4463	6.9576
2198	411	8.4	24.3648	20.2553	3038	538	9.2	18.2058	10.5874	3616	655	8.2	24.4327	3.9856
2117	415	8.7	25.9397	8.4701	2975	540	9.2	19.1077	2.3841	3628	657	8.5	25.1384	6.2329
<b>R.A. 1<sup>h</sup> 32<sup>m</sup></b>					3000	545	9.1	21.5548	5.4504	3720	658	8.7	25.0784	20.7664
2375	407	9.1	0.3169	15.6763	3001					3743	659	8.1	25.3442	25.2707
2264	408	8.7	0.4560	2.5038	3147	546	8.3	21.6520	23.0944	<b>R.A. 2<sup>h</sup> 28<sup>m</sup></b>				
2419	411	8.4	2.0473	20.2528	3048	556	9.0	25.1267	12.3202	3770	655	8.2	1.9117	3.9835
2324	415	8.7	3.4746	8.4491	<b>R.A. 2<sup>h</sup> 4<sup>m</sup></b>					3783	657	8.5	2.6454	6.2221
2409	416	8.4	4.8448	19.5593	3257	556	9.0	2.7099	12.3088	3882	658	8.7	2.7672	20.7544
2343	419	9.1	7.4651	11.3313	3280	565	8.9	10.1622	16.4369	3908	659	8.1	3.0894	25.2549
2337	421	8.9	8.4989	10.2832	3326	569	8.2	11.1143	22.8817	3867	663	7.6	3.7521	18.8193
2412	422	9.0	8.8358	19.8292	3308	574	8.7	13.1590	19.9502	3897	664	9.0	4.4436	23.5675
2433	423	8.9	8.9698	21.5351	3203	575	7.5	14.6320	1.5233	3855	665	8.2	5.6698	16.5613
2365	428	8.5	11.1551	13.3470	3282	576	9.0	14.9898	15.5984	3856	666	8.4	5.8720	17.0182
2452	430	9.1	12.9467	24.5151	3204	578	8.7	15.8105	1.9725	3904	670	8.7	12.2050	24.2709
2380	431	9.0	13.0424	15.2243	3250	579	9.2	16.1777	9.9625	3800	672	8.9	12.9073	8.3536
2441	438	5.2	18.8015	22.4301	3283	580	9.0	17.0463	15.8410	3757	674	8.9	14.6441	2.1731
2368	444	8.8	21.5705	13.3185	3243	582	8.6	18.3423	9.0144	3789	677	6.2	15.9631	6.2742
2406	445	8.0	23.1888	19.2496	3208	587	8.5	21.2468	1.4647	3758	678	8.5	16.2700	1.6342
2271	447	9.0	23.4907	2.7206	3331	588	9.1	21.2608	23.6691	3790	679	8.6	17.0931	6.3276
2331	448	9.0	23.8432	8.2783	3287	591	8.1	22.4707	16.8288	3782	683	9.1	22.0025	4.9038
2358	449	8.9	24.0001	12.8401	3340	592	8.5	22.5604	25.3600	3898	686	6.9	22.5154	23.1129
2350	450	8.5	24.3981	11.4960	3303	593	8.1	22.8691	19.4287	3893	687	8.2	23.3484	22.6140
2262	451	9.0	24.9331	1.3404	3305	595	8.6	24.3993	18.8496	3775	688	8.8	23.6386	3.9209
2443	453	8.6	25.5064	23.1829	3320	596	8.8	24.5872	21.0114	3776	689	8.6	24.0774	4.0711
2313	454	9.0	25.6819	6.3914	3295	597	6.8	25.1567	18.6863	3847	691	8.5	24.7345	15.4925
<b>R.A. 1<sup>h</sup> 40<sup>m</sup></b>					3235	598	8.6	25.6259	7.6886	3803	692	7.3	24.8929	7.7085
2673	445	8.0	0.8589	19.2620	<b>R.A. 2<sup>h</sup> 12<sup>m</sup></b>					3894	693	9.0	24.8038	21.7901
2516	447	9.0	0.9540	2.7299	3509	591	8.1	0.1104	16.8504	<b>R.A. 2<sup>h</sup> 36<sup>m</sup></b>				
2573	448	9.0	1.3759	8.2832	3585	592	8.5	0.3069	25.3803	4091	686	6.9	0.2338	23.1338
2619	449	8.9	1.5899	12.8426	3528	593	8.1	0.5414	19.4454	4093	687	8.2	1.0605	22.6244
2610	450	8.5	1.9711	11.4937	3531	595	8.6	2.0642	18.8467	3972	688	8.8	1.1168	3.9284
2508	451	9.0	2.3790	1.3325	3552	596	8.8	2.2792	21.0059	3976	689	8.6	1.5575	4.0734
2706	453	8.6	3.2254	23.1652	3532	597	6.8	2.8195	18.6737	4048	691	8.5	2.3575	15.4857
2556	454	9.0	3.1908	6.3739	3428	598	8.6	3.1511	7.6716	3992	692	7.3	2.4184	7.7005
2575	462	7.8	6.8908	9.1329	3352	600	8.9	4.7739	1.1666	4087	693	9.0	2.5055	21.7817
2632	469	7.7	11.9424	14.0743	3473	602	8.5	5.7801	13.0512	4040	694	8.4	3.8583	14.1945
2579	470	8.7	13.0201	8.8253	3565	608	8.1	10.5209	22.4037	3995	697	8.8	6.0409	8.4545
2567	472	9.1	14.0338	7.6409	3535	610	9.0	11.6050	18.6676	4019	699	7.6	7.2984	11.6554
2659	478	6.4	21.1099	17.1354	3536					4064	700	8.3	7.4873	18.6572
2642	481	8.3	23.2669	14.7242	3547	611	8.0	12.7875	20.0059	4057	702	8.5	8.6992	16.8092
2683	483	8.6	24.3607	19.0613	3417	613	8.1	14.4359	6.5263	3998	703	8.1	9.2903	8.2347
<b>R.A. 1<sup>h</sup> 48<sup>m</sup></b>					3366	614	8.6	15.6067	1.5935	4021	705	7.5	10.4222	11.2399
2831	481	8.3	0.8803	14.7360	3360	619	7.2	19.2804	0.9488	4109	709	8.5	13.2147	25.0292
2869	483	8.6	2.0283	19.0590	3525	622	8.2	21.3406	18.4019	3953	715	8.7	15.7969	1.0586
2813	489	8.7	4.7006	11.8074	3422	626	8.3	22.3310	6.9565	4075	716	8.5	16.1958	20.2179
2842	493	8.9	5.7631	16.1212	3503	627	8.3	22.7560	16.4669	3999	717	8.7	16.6515	8.5166
2777	494	8.7	6.1446	5.5597	3400	629	7.2	25.8630	5.5204	4104	721	8.0	18.3551	23.7099
2799	495	8.8	6.2743	9.2767	<b>R.A. 2<sup>h</sup> 20<sup>m</sup></b>					4029	724	8.4	18.7440	12.5760
2789	496	8.7	6.8201	7.4756	3688	627	8.3	0.3911	16.4850	3989	725	9.1	19.4488	6.7871
2879	499	9.1	9.9478	21.2655	3623	629	7.2	3.3610	5.5008	4003	726	7.4	19.6258	9.5987
2894	500	8.9	11.8632	23.0221	3649	630	8.9	4.0701	10.3570	4033	732	8.7	22.9374	12.3998
2827	501	8.1	12.0923	14.2535	3657	631	9.1	5.1901	10.7276	<b>R.A. 2<sup>h</sup> 44<sup>m</sup></b>				
2752	502	7.4	13.2439	0.9681	3712	634	9.1	7.0718	19.8063	4259	732	8.7	0.5217	12.4156
2873	503	8.9	13.9330	18.5753	3734	639	9.0	11.6193	23.9064	4235	737	7.8	3.8340	10.9059
2887	505	8.9	15.2555	21.8579	3636	642	8.5	13.1424	6.9018	4193	738	9.0	4.6830	6.9054
2857	511	8.5	20.7499	16.5738	3651	643	9.2	13.7959	9.8142	4312	739	8.9	5.2395	16.4951
2828	514	7.8	21.6719	13.6237	3619	644	8.9	14.4048	4.3843	4391	741	7.5	7.1220	25.9974
<b>R.A. 1<sup>h</sup> 56<sup>m</sup></b>					3741	645	9.1	14.4421	24.8131	4393	744	6.7	8.0120	25.7250
3088	525	8.8	7.4007	17.0167	3677	646	8.8	14.6450	14.0065	4334	745	8.8	8.0020	19.0056
3127	526	7.3	7.9912	20.4634	3653	648	8.7	15.9532	10.0292	4185	755	8.4	11.8924	5.6364
3028	528	8.8	10.2164	9.3219	3723	649	8.7	16.1566	22.1421	4303	758	7.8	13.2293	15.8477
3090	529	5.6	10.3854	16.7282	3724	650	8.7	16.1718	22.1907	4306	760	9.1	14.3915	16.0118
3098	534	9.1	13.8632	17.6750	3647	651	8.8	16.4097	9.2191	4398	761	9.1	15.2996	25.8598
					3696	652	8.6	18.1118	17.9226	4217	763	8.0	16.2914	8.9279



Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.	
Hyd.	Algiers		ξ.	η.	Hyd.	Algiers		ξ.	η.	Hyd.	Algiers		ξ.	η.
<b>R.A. 2<sup>h</sup> 44<sup>m</sup> (continued)</b>					<b>R.A. 3<sup>h</sup> 8<sup>m</sup> (continued)</b>					<b>R.A. 3<sup>h</sup> 40<sup>m</sup></b>				
4218	765	7.5	16 4265	8.9375	5009	897	9.0	19.7558	11.7059	..	1029	7.1	0.9736	0.0399
4206	768	8.4	18.4784	7.4937	4954	899	6.2	20.6992	5.6912	6077	1031	9.0	2.0300	21.4516
4268	769	8.8	18.6764	12.8177	5036	908	8.8	22.6099	15.3803	5991	1040	8.7	5.0748	9.2733
4383	770	9.1	18.9722	24.5812	4979	910	8.8	24.5024	8.2770	6069	1042	8.3	6.3794	19.6911
4325	772	4.6	19.9877	18.0083	<b>R.A. 3<sup>h</sup> 16<sup>m</sup></b>					6017	1044	8.9	7.3769	12.9999
4375	773	8.8	20.3671	23.0598	5385	908	8.8	0.2315	15.4004	6058	1045	8.9	7.4902	18.2635
4402	774	8.8	20.8499	25.7003	5301	910	8.8	2.0351	8.2737	6001	1047	8.8	8.0447	11.3838
4357	776	8.0	22.0225	21.4392	5360	914	8.9	3.8324	13.6118	6099	1050	8.5	8.5031	23.6220
4208	781	8.9	23.9702	8.1021	5328	928	8.9	11.6654	11.1032	6101	1055	8.5	12.2130	23.5037
4358	783	7.7	24.7610	20.7361	5214	930	9.0	12.8403	1.9288	6061	1057	8.2	12.8627	18.0551
<b>R.A. 2<sup>h</sup> 52<sup>m</sup></b>					5441	932	8.9	14.6673	18.5536	6070	1059	8.9	14.0981	20.3220
4543	781	8.9	1.5007	8.1053	5505	933	9.0	14.9921	23.9838	6103	1062	8.4	14.5594	23.7798
4667	783	7.7	2.4496	20.7283	5487	934	8.8	15.9159	22.8049	6071	1063	9.0	15.1565	20.4169
4544	786	8.6	6.8767	7.3178	5320	935	6.2	16.3919	9.2024	6004	1066	7.9	15.5585	11.0418
4628	787	7.1	7.1696	16.9858	5262	937	8.4	17.2381	5.8666	5987	1067	8.7	16.0140	7.7694
4657	788	7.3	7.9765	20.1995	5445	939	6.3	18.0716	18.4937	6044	1071	9.2	17.2692	16.5552
4658	789	8.7	8.2192	20.3721	5447	942	8.7	19.4292	18.3542	6062	1072	9.0	17.7398	17.7875
4629	790	9.0	8.3569	17.3642	5507	944	9.4	21.4502	23.7549	6023	1073	9.0	18.4048	14.6542
4694	793	8.8	10.6034	22.9580	5415	945	7.4	23.2700	16.4512	5957	1081	9.1	23.1496	0.6769
4482	794	7.3	10.5811	2.9391	5517	947	8.7	24.0054	25.2675	6107	1082	8.6	23.4710	23.6395
4672	797	7.9	14.7833	20.8110	5310	948	9.1	24.8051	8.9382	5998	1083	9.0	24.1276	9.6817
4611	806	9.0	21.0903	14.5691	<b>R.A. 3<sup>h</sup> 24<sup>m</sup></b>					6006	1086	9.0	24.3814	11.3306
4612	807	7.7	21.1553	15.2495	5650	945	7.4	0.9051	16.462	6036	1087	5.2	24.7310	15.5438
4614	810	7.8	23.2321	15.4222	5711	947	8.7	1.7507	25.2691	6076	1088	9.0	25.3152	20.3322
4601	811	6.8	24.9820	14.1222	5597	948	9.1	2.3461	8.9310	<b>R.A. 3<sup>h</sup> 48<sup>m</sup></b>				
4625	812	8.9	25.1862	15.9330	5675	950	7.9	3.9450	18.1425	6151	1081	9.1	0.5872	0.6905
4616	813	8.8	25.3354	14.5770	5635	957	8.9	6.8602	14.5176	6464	1082	8.6	1.1960	23.6481
<b>R.A. 3<sup>h</sup> 0<sup>m</sup></b>					5712	959	8.8	8.3884	25.2132	6270	1083	9.0	1.6778	9.6829
4826	810	7.8	0.8543	15.4343	5562	963	8.3	11.0745	2.9394	6298	1086	9.0	1.9523	11.3285
4814	811	6.8	2.5877	14.1124	5694	964	9.0	11.1524	21.9442	6363	1087	5.2	2.3545	15.5370
4830	812	8.9	2.8146	15.9203	5595	965	9.2	11.5769	7.8747	6417	1088	9.0	2.9986	20.3174
4828	813	8.8	2.9467	14.5627	5655	966	9.0	11.9350	16.5296	6351	1094	9.0	4.4323	15.1937
4773	822	8.9	6.6227	4.6259	5646	970	9.1	13.4359	15.2194	6187	1095	9.0	4.4730	3.9096
4793	824	8.8	7.5336	11.4296	5575	972	8.9	14.1859	4.9007	6169	1097	8.9	5.0648	1.0462
4751	830	8.2	9.4303	0.9161	5690	975	8.2	15.3859	21.5908	6273	1098	8.4	5.5214	9.7907
4782	831	8.2	9.6856	8.3653	5696	978	8.4	16.3883	22.1828	6214	1099	8.9	5.7456	5.3201
4752	832	8.4	10.3375	0.7002	5551	980	9.0	17.0704	0.6391	6180	1102	8.6	6.7930	2.1753
4868	833	7.9	10.9462	22.0227	5603	989	8.4	22.6784	9.4990	6216	1103	9.0	7.4306	6.0589
4851	835	9.0	11.4910	18.7981	5688	990	8.8	23.1794	20.0747	6315	1104	9.1	7.9197	12.4649
4817	837	8.6	11.7322	14.3011	5626	991	9.1	24.1324	12.3601	6424	1106	6.6	10.5784	19.9582
4842	838	8.9	12.6566	18.5644	5641	993	8.8	25.6917	14.4695	6404	1108	8.9	11.5809	19.3580
4802	839	9.1	12.7455	12.3127	<b>R.A. 3<sup>h</sup> 32<sup>m</sup></b>					6406	1112	8.8	13.2047	18.6204
4870	840	7.9	13.2721	22.5776	5804	989	8.4	0.2264	9.5182	6220	1113	8.5	13.3552	6.0865
4854	843	8.3	15.6848	19.0542	5864	990	8.8	0.8598	20.0874	6354	1114	8.8	13.6464	14.4708
4813	851	8.0	20.7613	13.4069	5822	991	9.1	1.7162	12.3611	6222	1119	9.0	14.3886	5.2839
4798	856	7.9	23.5190	10.6369	5838	993	8.8	3.3016	14.4507	6193	1121	9.0	15.0658	3.4519
4760	857	8.8	23.6607	1.7719	5778	996	8.8	5.1837	5.9191	6243	1123	8.9	15.6222	7.1000
4861	858	8.3	23.6472	19.8529	5898	998	4.3	5.6853	24.6330	6377	1124	8.5	16.1117	16.7305
4887	861	9.2	25.4555	25.2796	5806	999	8.7	6.0178	9.4841	6282	1131	8.7	19.1191	10.0680
<b>R.A. 3<sup>h</sup> 8<sup>m</sup></b>					5766	1002	8.7	8.7159	3.0659	6322	1132	8.6	19.3126	12.7494
4991	856	7.9	1.0813	10.6455	5775	1004	8.8	11.0980	5.2319	6184	1134	8.8	19.5622	2.2786
4917	857	8.8	1.1120	1.7792	5787	1005	8.5	11.4589	6.8071	6292	1135	8.6	19.6916	10.3991
5075	858	8.3	1.3248	19.8594	5829	1009	9.2	13.2190	12.6420	6196	1136	9.0	19.9319	4.0867
5132	861	9.2	3.2007	25.2622	5845	1013	8.9	15.8203	15.7249	6427	1138	9.0	20.7113	20.0074
4944	867	8.1	4.8098	5.7278	5819	1014	9.3	16.6104	10.5603	6459	1139	8.6	21.3461	23.3958
5004	870	8.6	6.7454	12.2309	5835	1019	9.0	18.6278	13.9339	6476	1143	8.6	22.1355	23.6869
5141	871	8.6	6.9683	25.9065	5878	1020	8.8	19.4225	20.7180	6344	1147	9.0	23.7452	14.1504
4970	872	8.7	7.2005	7.9425	5796	1021	7.5	19.6532	7.5180	6327	1148	9.2	23.7599	12.7053
4963	874	8.0	7.8477	6.8958	5824	1023	8.8	21.2780	11.9873	6268	1149	8.9	24.5872	8.4757
5102	879	8.9	9.1202	22.3240	5783	1025	9.0	21.5407	6.2462	<b>R.A. 3<sup>h</sup> 56<sup>m</sup></b>				
5032	883	7.3	11.6711	15.0232	5840	1027	9.3	21.9996	15.0829	6593	1147	9.0	1.3514	14.1560
5015	885	6.8	12.3217	12.9541	..	1029	7.1	23.5440	0.0311	6581	1148	9.2	1.3481	12.7108
4947	888	6.6	14.3136	5.8470	5881	1031	9.0	24.3325	21.4539	6546	1149	8.9	2.1224	8.4713
										6619	1152	9.2	3.8076	18.4055
										6539	1155	8.7	5.4289	7.7219



Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.	
Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.
R.A. 3 <sup>h</sup> 56 <sup>m</sup> (continued)					R.A. 4 <sup>h</sup> 12 <sup>m</sup> (continued)					R.A. 4 <sup>h</sup> 28 <sup>m</sup> (continued)				
6651	1158	9.2	6.5163	22.5518	7191	1272	8.6	3.3020	20.5241	7806	1385	8.3	8.8562	13.5638
6523	1161	9.0	9.0445	6.0437	6969	1273	8.7	3.4314	2.3458	7843	1388	8.8	11.2838	15.6538
6541	1165	8.8	10.2342	8.3973	7238	1276	9.1	5.4091	24.6906	7882	1390	8.6	11.8635	18.3072
6666	1166	9.1	10.3218	23.7396	7142	1279	9.0	6.7542	17.0221	7945	1392	8.9	11.9132	20.4767
6610	1170	9.1	12.4203	15.9098	7105	1280	8.8	7.5449	13.9180	7779	1393	6.9	12.0299	11.9465
6543	1172	8.6	14.3352	8.3827	7095	1281	8.7	7.5871	12.7345	7626	1396	9.1	12.9789	1.8591
6585	1173	8.0	14.4607	12.9359	6980	1285	8.8	9.6069	3.8783	7900	1399	9.1	13.4982	19.3773
6656	1174	9.0	14.6764	22.3093	7244	1291	9.1	12.2359	23.9251	7862	1402	8.7	15.1202	17.2957
6625	1175	9.0	15.1816	18.0894	7165	1292	9.2	12.3899	18.4665	7811	1403	9.0	15.6541	14.2859
6637	1177	8.9	15.4597	20.3277	7083	1294	8.3	13.4020	12.5180	7864	1404	9.0	15.6687	17.0518
6561	1184	8.2	17.1169	10.0576	7137	1298	9.0	15.6225	16.1326	7609	1405	8.8	15.8022	0.6584
6611	1185	7.4	17.3264	16.6030	7184	1302	8.4	16.6215	18.9542	7968	1406	9.4	15.8320	22.4446
6673	1186	8.9	18.0045	24.1596	6973	1303	9.0	16.9660	2.5417	7922	1407	8.6	15.8456	20.0279
6514	1189	9.0	19.5742	2.9771	7086	1306	6.6	18.3444	12.5247	7629	1411	9.0	17.7536	1.4159
6588	1191	8.4	19.6584	13.0247	7098	1307	8.8	18.8984	12.9121	7987	1412	8.9	18.4273	23.3124
6565	1194	8.3	20.0188	10.4086	7151	1308	9.0	19.2569	17.4435	7646	1416	6.3	20.4073	2.5722
6566	1195	8.0	20.7094	10.3845	7030	1309	8.8	19.3968	7.8358	7796	1417	7.8	20.6652	12.4214
6648	1196	7.9	21.0982	21.3504	6965	1314	9.0	22.9461	2.3613	7662	1418	8.8	21.4941	4.2125
6528	1197	7.1	21.4489	6.0538	7088	1315	9.0	22.9307	12.3515	7797	1419	8.3	21.5076	12.6432
6529	1198	7.5	22.0105	6.2188	7199	1317	7.8	24.4240	19.9294	7929	1421	8.4	22.5967	19.5533
6536	1200	8.6	22.5965	6.9709	7171	1318	8.3	24.5093	18.5283	7663	1422	8.5	22.7719	3.6653
6676	1202	8.1	22.5539	24.3364	7074	1319	5.5	25.0187	11.5754	7700	1424	8.5	22.9270	5.5696
6530	1203	9.1	23.1309	5.6682	6966	1323	9.1	25.9536	1.7274	7908	1427	8.2	24.0846	19.2981
6640	1205	7.0	23.9122	20.4956	R.A. 4 <sup>h</sup> 20 <sup>m</sup>					7682	1434	8.9	25.9205	4.6964
6580	1206	9.0	23.9747	11.6564	7317	1314	9.0	0.4048	2.3772	R.A. 4 <sup>h</sup> 36 <sup>m</sup>				
6618	1207	9.3	24.4162	17.3678	7399	1315	9.0	0.5144	12.3674	8344	1421	8.4	0.2706	19.5734
6661	1208	9.0	24.6665	21.8966	7472	1317	7.8	2.1025	19.9261	8098	1422	8.5	0.2468	3.6832
6554	1209	6.5	25.0226	8.8966	7452	1318	8.3	2.1703	18.5239	8136	1424	8.5	0.4259	5.5857
6597	1211	8.8	25.8838	14.2802	7400	1319	5.5	2.5925	11.5654	8345	1427	8.2	1.7553	19.2990
R.A. 4 <sup>h</sup> 4 <sup>m</sup>					7312	1323	9.1	3.4040	1.7074	8119	1434	8.9	3.4081	4.6763
6733	1200	8.6	0.1129	6.9910	7467	1324	7.7	3.9467	18.8529	8428	1435	9.1	4.8101	0.2254
6884	1202	8.1	0.2875	24.3571	7348	1325	8.6	4.2724	6.0897	8138	1436	9.0	4.9904	23.1746
6727	1203	9.1	0.6310	5.6818	7430	1327	8.7	4.9112	14.8928	8217	1437	8.6	5.1062	5.7860
6857	1205	7.0	1.5978	20.4987	7535	1328	7.8	5.9566	25.0961	8255	1440	7.0	6.4216	11.6710
6787	1206	9.0	1.5496	11.6593	7355	1334	8.5	8.4988	6.7310	8371	1441	8.9	7.0354	13.4957
6830	1207	9.3	2.0627	17.3648	7411	1335	8.8	8.8499	12.8985	8256	1442	9.1	7.4176	20.0342
6874	1208	9.0	2.3696	21.8930	7514	1336	8.9	9.0251	22.9896	8373	1445	8.9	8.0097	13.6082
6757	1209	6.5	2.5630	8.8869	7516	1339	8.9	9.7663	23.1761	8126	1447	9.0	8.7226	20.3592
6812	1211	8.8	3.4914	14.2591	7357	1341	8.5	10.8583	7.0598	8131	1449	8.8	9.2698	0.1031
6875	1212	8.0	4.1262	21.7193	7326	1344	9.1	11.3128	4.2900	8331	1451	9.2	9.9085	4.6435
6780	1214	6.8	5.6857	10.4115	7394	1346	8.9	11.9788	10.8380	8332	1453	8.6	10.9740	18.2390
6813	1222	9.0	7.9601	14.1948	7340	1348	8.4	12.2808	5.1548	8077	1454	7.0	11.0677	18.3332
6885	1223	8.5	8.4950	24.2679	7530	1349	8.9	13.3242	24.6198	8109	1456	9.1	11.3863	2.0694
6769	1224	8.9	8.5303	9.9702	7395	1350	8.9	13.9508	11.2809	8312	1457	9.3	11.4918	4.1431
6738	1230	9.0	12.5268	6.4142	7458	1351	8.3	14.9305	18.2845	8182	1459	9.0	12.6031	16.6503
6842	1232	8.5	12.9772	17.7311	7437	1353	8.5	16.3211	15.3418	8131	1461	8.6	13.0005	9.2860
6770	1233	8.7	13.0846	10.1010	7470	1354	8.8	16.9985	19.4845	8381	1467	9.0	16.8025	4.5938
6722	1237	8.5	13.8599	4.9331	7449	1356	9.1	17.5072	17.1518	8414	1468	8.9	16.9461	19.6364
6878	1239	8.7	14.2040	22.5087	7541	1358	9.1	18.5170	25.6681	8282	1469	8.8	18.2968	22.4271
6747	1244	8.5	14.9811	7.4893	7506	1359	8.7	18.7631	21.8195	8469	1470	7.5	19.1895	14.9645
6803	1245	8.5	15.2042	12.6087	7438	1360	8.6	18.8552	15.2497	8134	1474	8.8	19.7946	25.4150
6760	1246	9.1	15.5991	9.1631	7479	1363	8.9	19.9598	20.7355	8066	1475	8.9	19.9327	4.9589
6880	1254	9.1	17.6710	22.1622	7368	1366	8.5	21.5194	8.1774	8116	1476	9.2	20.1554	0.7319
6725	1259	8.4	20.5348	4.7481	7490	1372	7.1	23.0659	21.7321	8244	1479	9.1	22.2725	3.6667
6751	1261	8.3	21.9321	8.2288	7352	1373	9.1	23.3125	6.4546	8229	1480	8.7	22.2398	12.8125
6752	1262	6.2	22.0196	8.4149	R.A. 4 <sup>h</sup> 28 <sup>m</sup>					8401	1482	8.9	22.3458	12.0142
6872	1263	8.8	22.4336	21.1218	7957	1372	7.1	0.7670	21.7461	8172	1483	7.0	22.6841	7.4867
6774	1267	9.0	23.3534	9.9248	7702	1373	9.1	0.8224	6.4661	8324	1485	8.3	23.4554	16.5483
6715	1271	8.9	25.3378	3.1280	7751	1376	8.6	4.6442	9.2414	8440	1486	8.9	23.4766	23.5658
6866	1272	8.6	25.6161	20.5429	7938	1377	8.7	4.7456	20.8193	8117	1491	8.6	25.4290	3.4410
6708	1273	8.7	25.9729	2.3663	7839	1378	9.0	5.3158	15.5070	8160	1493	8.3	25.8857	6.5431
R.A. 4 <sup>h</sup> 12 <sup>m</sup>					7788	1380	8.9	6.2539	12.5470	R.A. 4 <sup>h</sup> 44 <sup>m</sup>				
7201	1263	8.8	0.1270	21.1439	7805	1382	8.9	6.8829	13.7995	8671	1482	8.7	0.2807	20.6027
7046	1267	9.0	0.9067	9.9356	7825	1383	8.7	8.0313	14.3269	8545	1483	7.0	0.2070	7.5058
6968	1271	8.9	2.8059	3.1151	7913	1384	7.9	8.7629	20.0903	8632	1485	8.3	1.0916	16.5576



Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900 0.		Reference No.		Mag.	Standard co-ordinates, 1900-0	
Hyd.	Algiers.		ξ'	η'	Hyd.	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'	η'.
R.A. 4 <sup>h</sup> 44 <sup>m</sup> (continued)					R.A. 5 <sup>h</sup> 0 <sup>m</sup> (continued)					R.A. 5 <sup>h</sup> 24 <sup>m</sup>				
8701	1486	8.9	1.2006	23.5744	9053	1619	7.0	14.4113	5.6332	10,249	1740	7.4	0.6135	10.8947
8513	1491	8.6	2.9011	3.4270	9274	1620	8.8	14.6562	25.4989	10,227	1744	9.1	1.9128	9.2416
8535	1493	8.3	3.3964	6.5231	9194	1622	8.1	15.8231	17.7383	10,339	1745	8.8	1.8126	15.6003
8654	1495	6.2	3.9763	18.6221	9210	1624	8.3	16.6311	19.6830	10,169	1747	8.8	2.8993	5.9614
8673	1498	8.6	7.2032	20.7397	9187	1626	8.7	17.6454	16.4709	10,230	1749	8.8	3.5042	9.8088
8634	1503	8.9	8.9327	16.4490	9133	1627	8.4	18.1882	13.2653	10,353	1754	8.9	5.7537	17.2703
8706	1504	8.7	9.0163	23.4144	9044	1628	9.0	18.5410	4.1904	10,354	1755	8.8	6.1186	17.3115
8650	1505	7.0	9.2377	17.6998	9103	1630	8.6	19.3379	9.8149	10,254	1759	7.7	7.7126	10.6347
8561	1507	8.8	11.1813	7.8531	9037	1631	8.6	20.5066	3.9819	10,447	1763	8.8	8.9630	22.0185
8507	1508	8.7	11.3848	2.4759	9038	1638	7.4	23.3517	4.0255	10,286	1767	8.4	11.1239	12.9810
8607	1509	8.4	11.4893	12.8493	9213	1639	8.7	23.7478	20.2238	10,394	1768	6.1	11.1833	18.5214
8616	1512	8.5	12.8927	14.0820	9153	1640	9.1	23.9650	13.6939	10,279	1771	7.9	11.7929	11.6697
8502	1513	7.8	13.0921	1.3442	9182	1643	9.1	24.8771	15.4358	10,190	1773	8.7	12.6562	6.7548
8562	1514	8.4	13.7357	8.2408	R.A. 5 <sup>h</sup> 8 <sup>m</sup>					10,258	1774	3.1	12.8884	11.0700
8726	1515	8.0	15.5138	25.7894	9327	1638	7.4	0.8313	4.0365	10,104	1776	8.8	13.0329	0.7360
8508	1516	8.7	15.9465	1.7881	9517	1639	8.7	1.4300	20.2291	10,344	1777	8.6	13.2359	15.6173
8619	1517	8.8	17.5202	14.5727	9517	1639	8.7	1.4300	20.2291	10,452	1779	9.0	13.7384	22.2910
8660	1522	9.1	20.4603	18.2017	9433	1640	9.1	1.5655	13.6969	10,512	1782	8.8	15.9973	25.7188
8642	1524	9.0	21.5876	16.6822	9449	1643	9.1	2.4993	15.4271	10,329	1783	7.9	16.4772	14.4367
8568	1526	9.0	22.8919	7.9529	9554	1646	8.9	3.9511	23.7476	10,403	1790	7.7	20.1362	18.8204
8622	1530	9.0	24.7194	14.0312	9331	1647	8.9	3.9044	4.5971	10,439	1791	8.6	20.4860	20.8586
8699	1531	8.6	24.9967	21.9220	9346	1648	8.6	4.1282	5.2683	10,349	1792	8.7	20.6173	15.4401
R.A. 4 <sup>h</sup> 52 <sup>m</sup>					9576	1651	9.2	6.7863	25.2680	10,281	1793	6.4	20.9783	12.2691
8805	1526	9.0	0.4205	7.9694	9555	1652	8.6	7.5885	23.7927	10,383	1794	8.5	21.0379	18.1282
8863	1530	9.0	2.3240	14.0246	9319	1653	8.6	7.7529	3.6230	10,313	1798	8.7	22.9208	13.3725
8953	1531	8.6	2.7000	21.9110	9408	1655	7.7	8.5962	11.4757	10,164	1801	8.7	24.2869	4.3518
8790	1534	8.7	4.0138	6.2837	9522	1659	9.0	9.7191	20.4468	10,386	1802	8.6	24.6683	17.5008
8978	1535	8.9	4.0878	25.7422	9435	1660	8.9	9.9260	13.1674	R.A. 5 <sup>h</sup> 32 <sup>m</sup>				
8914	1536	9.0	4.0626	19.5831	9332	1662	8.8	11.0146	4.4249	10,732	1798	8.7	0.5173	13.3886
8845	1537	6.7	4.2963	12.2643	9392	1670	8.5	14.6272	9.4010	10,602	1801	8.7	1.7704	4.3514
8964	1539	8.6	4.9782	22.9318	9336	1672	8.6	14.7555	4.0147	10,807	1802	8.6	2.3163	17.4945
8937	1540	8.5	5.4876	21.4251	9382	1676	8.3	16.2444	8.7751	10,892	1806	8.9	3.7480	22.8996
8791	1541	8.5	5.6235	6.4089	9340	1679	8.8	18.1729	4.6311	10,791	1807	8.9	3.7169	16.2674
8916	1543	9.3	7.9666	19.6707	9549	1680	7.2	18.0648	22.2068	10,750	1808	8.6	3.7392	14.0897
8811	1544	8.9	8.7281	7.6151	9550	1681	8.8	18.2553	22.1456	10,640	1809	8.6	4.0281	6.9140
8902	1546	8.9	9.1030	16.9804	9469	1686	8.4	22.3627	16.7316	10,691	1818	8.7	6.3633	9.5481
8976	1547	8.7	10.1174	24.7355	9395	1688	9.1	24.3928	9.9060	10,793	1819	8.3	6.3891	15.8937
8919	1551	9.0	11.0912	19.0306	9458	1689	7.7	24.8352	15.5678	10,853	1821	8.9	7.0778	20.2060
8779	1554	8.9	12.9596	3.5291	9416	1690	8.7	25.5110	11.5421	10,783	1824	7.5	9.3431	14.6067
8821	1555	8.5	14.0197	8.5469	R.A. 5 <sup>h</sup> 16 <sup>m</sup>					10,556	1828	8.2	11.5269	1.1277
8921	1557	9.1	14.5385	18.9849	9752	1688	9.1	1.9459	9.9039	10,829	1830	9.3	13.4757	18.1825
8911	1562	9.3	15.7643	18.4320	9857	1689	7.7	2.4591	15.5597	10,863	1831	9.1	13.9829	20.8444
8787	1566	8.7	17.9053	5.0812	9793	1690	8.7	3.0844	11.5260	10,560	1833	8.3	14.9137	0.8667
8824	1570	8.8	19.8174	9.3968	9875	1692	8.9	3.7093	17.4873		1834	8.5	14.9267	0.0407
8844	1573	8.9	20.9916	10.6493	9794	1694	8.8	4.5124	12.3350	10,867	1837	8.9	17.3474	21.1771
8988	1575	9.0	22.3248	25.1901	10,014	1702	7.8	7.6337	24.1774	10,812	1839	8.9	18.4716	17.3633
8926	1578	9.1	22.7535	19.5614	9819	1703	8.5	7.8231	12.8098	10,599	1840	8.6	18.5947	3.8119
8859	1581	8.8	24.1532	13.3751	9819	1703	8.5	7.8231	12.8098	10,683	1841	8.4	18.5429	9.1957
R.A. 5 <sup>h</sup> 0 <sup>m</sup>					9604	1707	8.6	9.3954	0.6374	10,813	1842	8.8	18.9517	16.6702
9204	1578	9.1	0.4274	19.5795	9862	1709	8.9	9.6145	15.7869	10,585	1844	8.4	19.8226	3.0725
9141	1581	8.8	1.7497	13.3757	9759	1713	8.6	11.2106	9.9652	10,869	1851	8.9	22.5059	21.0671
9119	1584	8.8	3.6446	11.7833	9653	1717	8.7	12.2261	3.2812	10,648	1852	7.1	22.6976	6.9017
9156	1588	9.0	4.3064	14.6285	9881	1722	5.2	13.5016	17.0854	10,817	1854	8.7	23.0643	17.1541
9028	1589	8.9	4.2860	3.7570	9850	1726	8.0	14.8020	14.6752	10,769	1855	8.7	23.0960	14.1053
9122	1590	9.2	4.6652	11.3396	9982	1727	8.6	15.2177	22.4023	10,747	1860	9.0	24.6665	13.4121
9029	1591	4.5	4.7935	3.3867	9609	1732	7.9	19.3738	0.7041	10,619	1863	7.8	25.2595	5.2489
9246	1594	8.3	5.3034	22.7743	9610	1733	8.6	19.4242	0.4208	10,805	1864	8.6	25.3300	16.4281
9191	1599	8.1	8.0026	17.7159	9637	1734	8.6	19.4528	2.6531	10,590	1865	8.8	25.4523	2.5816
9207	1600	8.8	8.6435	19.7394	10,026	1735	8.8	19.8739	23.7313	R.A. 5 <sup>h</sup> 40 <sup>m</sup>				
9172	1601	8.2	8.6704	15.8750	9886	1736	8.5	21.6436	16.6778	11,502	1851	8.9	0.1986	21.0883
9084	1608	9.0	10.9263	8.3961	9854	1738	8.9	22.3298	15.1742	11,082	1852	7.1	0.2131	6.9206
9257	1610	9.2	12.8182	24.1396	9788	1740	7.4	23.0482	10.8802	11,391	1854	8.7	0.7081	17.1683
9177	1611	8.1	13.2586	16.3057	9749	1744	9.1	24.3680	9.2434	11,298	1855	8.7	0.7016	14.1191
9061	1615	8.4	13.6751	6.5312	9872	1745	8.8	24.1883	15.6003	11,270	1860	9.0	2.2634	13.4062
9185	1618	7.9	14.1590	17.3012	9694	1747	8.8	25.3956	5.9753					
					9771	1749	8.8	25.9524	9.8301					







Reference No.		Mag.	Standard co-ordinates, 1900.0		Reference No.		Mag.	Standard co-ordinates, 1900.0		Reference No.		Mag.	Standard co-ordinates, 1900.0	
Hyd.	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'.	η'.
<b>R.A. 6<sup>h</sup> 20<sup>m</sup> (continued)</b>					<b>R.A. 6<sup>h</sup> 28<sup>m</sup> (continued)</b>					<b>R.A. 6<sup>h</sup> 44<sup>m</sup> (continued)</b>				
14,262	2235	8.6	12.5661	0.4610	15,452	2332	8.8	20.0413	9.4366	17,132	2442	8.6	2.9017	5.2065
15,081	2237	9.1	13.5456	24.0423	15,732	2334	8.9	20.0807	16.2712	17,168	2447	9.0	4.1166	5.4721
14,498	2238	8.7	14.4533	8.1118	15,608	2335	9.2	20.1322	13.6269	17,138	2450	9.1	4.8603	4.9045
15,085	2240	8.4	15.2758	23.8478	15,998	2336	8.7	20.6880	24.0105	17,456	2451	9.1	4.9612	11.3876
	2244	8.3	16.4667	0.2451	15,240	2337	9.0	20.8177	2.1451	17,391	2452	8.6	5.0782	9.8390
14,804	2245	9.2	16.7511	16.3787	15,760	2338	8.8	20.9895	16.9781	17,068	2453	9.0	5.3570	2.3536
14,640	2247	8.0	17.1676	11.9931	15,321	2341	7.7	21.3203	4.7647	17,258	2454	8.7	5.3951	7.9281
14,883	2248	8.9	17.3521	17.9178	16,028	2343	6.9	22.1353	25.3588	17,395	2455	8.7	5.5063	9.5521
14,913	2250	8.7	17.9143	18.8268	15,696	2351	8.8	24.2538	15.4933	17,262	2456	9.0	5.7379	8.0693
14,302	2251	8.6	18.8663	2.3994	15,268	2353	8.9	25.0300	2.8037	17,396	2457	8.4	5.7761	9.9834
15,065	2258	9.0	20.1784	23.3505	15,738	2355	9.1	25.4270	15.9546	17,222	2460	8.2	6.7576	7.0192
14,332	2259	9.0	20.6148	2.9281	15,426	2357	9.2	25.6133	4.6823	17,407	2462	8.8	7.2617	9.3884
14,335	2260	9.8	20.9425	2.9105	<b>R.A. 6<sup>h</sup> 36<sup>m</sup></b>					17,348	2463	9.0	7.2899	8.8456
14,920	2261	8.5	21.0762	18.9238	16,597	2351	8.8	1.8768	15.4926	17,413	2472	8.4	8.1231	9.4635
14,400	2262	8.4	21.1705	5.3303	16,144	2353	8.9	2.4942	2.7944	17,227	2473	9.0	8.1764	6.6678
14,888	2265	9.1	21.5144	18.6498	16,641	2355	9.1	3.0556	15.9390	17,530	2479	7.0	9.4721	11.8898
14,889	2266	9.2	21.8159	18.0052	16,204	2357	9.2	3.1009	4.6657	17,287	2480	8.7	9.4706	7.8156
14,620	2267	9.0	21.8982	11.4612	16,679	2358	9.1	3.5924	16.7815	17,569	2481	8.6	9.6809	12.9221
15,134	2268	8.5	22.0357	25.7901	16,272	2362	8.9	4.2449	6.7837	17,104	2483	8.8	10.3371	3.3062
14,444	2270	8.8	22.3069	5.6380	16,207	2363	9.0	4.6819	5.3411	18,022	2486	8.8	11.7625	25.7165
14,401	2271	8.8	22.5061	4.7580	16,274	2364	9.1	4.8551	7.0406	17,902	2490	7.7	13.0762	22.5479
15,038	2273	8.6	23.6125	21.8558	16,896	2366	8.6	5.3537	23.4618	17,148	2494	8.8	14.4966	4.7539
14,737	2274	10.0	23.8276	14.4186	16,832	2369	8.9	6.2900	21.2671	17,622	2499	8.7	16.6613	13.8084
14,775	2275	9.3	23.9317	14.9413	16,645	2370	9.2	6.5807	16.4421	17,052	2503	8.8	17.2412	1.5303
15,100	2277	8.1	24.0882	24.3359		2372	9.1	7.6502	0.1614	17,152	2503	9.0	17.4506	5.1843
14,626	2278	9.4	24.2745	11.0089	16,802	2373	9.2	7.9458	20.3486	17,582	2504	8.9	17.4819	12.7296
14,738	2279	9.3	24.3764	14.3130	16,868	2376	9.2	8.2719	21.9993	17,115	2512	8.9	19.2320	3.9262
	2280	8.5	25.2491	2.6379	16,611	2377	9.2	9.0364	15.4697	17,502	2514	8.5	19.8114	10.8608
	2282	8.7	25.8356	0.8077	16,837	2379	8.7	10.8762	21.3440	17,440	2515	8.6	19.8979	9.6351
<b>R.A. 6<sup>h</sup> 28<sup>m</sup></b>					16,317	2380	8.9	10.9240	7.6322	17,503	2517	7.7	20.2540	10.5302
15,302	2271	8.8	0.0053	4.7792	16,657	2382	8.9	11.3455	15.8145	17,943	2523	8.8	22.1207	22.9557
15,910	2273	8.6	1.3152	21.8628	16,319	2383	8.9	11.6403	8.1384	18,035	2529	8.6	24.5215	25.9973
15,626	2274	10.0	1.4371	14.4232	16,755	2385	9.0	12.1012	19.0691	17,445	2530	9.1	24.9595	9.5904
15,663	2275	9.3	1.5478	14.9446	16,481	2388	8.8	13.4253	12.5841	17,638	2532	7.5	25.3123	13.7942
15,972	2277	8.1	1.8218	24.3365	16,661	2389	7.4	13.4351	16.5671	<b>R.A. 6<sup>h</sup> 52<sup>m</sup></b>				
15,490	2278	9.4	1.8414	11.0081	16,112	2390	9.1	13.5001	0.7788	19,602	2529	8.6	2.2758	25.9922
15,627	2279	9.3	1.9847	14.3107	16,532	2391	9.2	15.1522	13.5296	18,563	2530	9.1	2.5085	9.5813
15,243	2280	8.5	2.7111	2.6262	16,662	2393	9.3	15.2514	15.8807	18,796	2532	7.5	2.9139	13.7801
15,203	2282	8.7	3.2746	0.7891	16,570	2395	9.0	16.0428	14.2506	19,258	2533	8.7	3.8584	21.5784
15,771	2283	9.1	3.6561	17.9270	16,411	2396	8.7	16.1205	10.0354	18,114	2543	5.1	5.1813	2.2242
15,879	2287	9.1	5.7547	20.9395	16,189	2398	7.0	16.3634	3.6598	19,469	2545	8.9	5.2981	24.2226
15,248	2290	8.8	6.1779	2.9781	16,844	2399	8.8	16.3658	20.7926	19,323	2546	8.4	6.2578	22.0977
15,774	2291	8.8	6.6063	18.3798	16,961	2400	7.5	16.4356	25.1114	19,012	2551	9.0	7.0658	17.4371
15,583	2293	9.4	6.6835	12.9612	16,286	2401	8.6	16.8537	6.7736	19,329	2555	8.9	8.8207	21.9342
15,640	2294	9.4	6.7911	13.5461	16,166	2404	6.3	17.6152	2.8299	18,217	2558	6.3	9.4188	4.3313
15,358	2296	9.0	7.1650	6.3991	16,287	2406	8.9	17.7820	6.6283	18,284	2559	8.8	9.4955	4.4522
15,465	2297	9.3	7.7166	9.9523	16,535	2409	9.1	18.3928	13.2068	19,332	2561	8.9	10.0507	21.9364
15,413	2300	8.7	10.3805	7.6888	16,115	2414	9.0	18.6667	0.9046	18,074	2562	5.6	10.9917	1.1071
15,443	2301	8.8	10.8058	8.9545	16,291	2417	9.1	19.2844	6.7656	19,485	2563	7.5	11.0528	23.9098
15,749	2302	7.5	10.8590	17.0224	16,582	2418	9.0	19.2635	14.2163	19,554	2564	8.5	11.3681	25.7582
15,986	2304	8.5	10.9024	24.6024	16,132	2422	8.4	20.6835	1.6628	19,023	2570	9.2	12.4487	17.5142
15,416	2305	9.2	11.0662	7.5103	16,224	2425	8.3	21.0179	5.1710		2571	9.0	12.6902	0.0682
15,587	2306	8.4	11.2182	12.9212	16,225	2427	8.8	21.2354	5.4966	18,959	2573	9.8	13.6409	15.6591
15,284	2308	9.0	12.1539	3.5690	16,886	2428	7.2	21.3438	22.1804	18,083	2578	9.0	14.5568	1.0142
15,589	2309	8.5	12.1649	12.8999	16,821	2429	8.0	21.5725	20.6178	18,758	2580	8.5	14.7700	12.6389
15,417	2310	9.4	12.4653	7.5673	16,634	2437	9.0	24.7766	15.2744	19,420	2583	9.5	15.4977	23.0535
15,210	2312	8.8	13.1866	0.7205	16,637	2438	8.7	25.0710	15.1174	19,638	2584	7.2	15.7927	25.8501
15,723	2313	8.8	13.4399	16.0958	16,230	2440	8.7	25.2388	4.7633	18,641	2585	9.2	16.4164	11.0903
15,544	2315	7.8	13.7467	12.3795	16,232	2442	8.6	25.4074	5.2205	18,702	2586	8.8	16.5342	11.9825
15,212	2317	8.6	14.2645	0.3547	<b>R.A. 6<sup>h</sup> 44<sup>m</sup></b>					19,359	2588	9.3	17.4548	22.6426
15,510	2320	6.8	16.2709	11.1710	17,642	2437	9.0	2.3967	15.2670	19,093	2589	8.9	17.9955	17.7648
15,237	2322	8.4	16.5225	1.7587	17,644	2438	8.7	2.6891	15.1062	18,089	2590	9.3	18.1042	0.7120
15,551	2323	9.1	16.7088	12.0249	17,130	2440	8.7	2.7275	4.7514	19,363	2593	8.3	18.2465	21.8275
15,788	2325	8.1	18.2018	18.5151						18,376	2594	8.8	18.8113	5.7410
15,238	2326	8.9	18.5676	1.7877						18,092	2595	8.8	19.0238	0.5296
15,375	2330	7.1	19.9385	6.7542						19,512	2597	9.0	19.1064	23.8567



Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o		Reference No.		Mag.	Standard co-ordinates, 1900 o	
Hyd.	Algiers		ξ.	η.	Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers		ξ.	η.
R.A. 6 <sup>h</sup> 52 <sup>m</sup> (continued)					R.A. 7 <sup>h</sup> 0 <sup>m</sup> (continued)					R.A. 7 <sup>h</sup> 16 <sup>m</sup>				
18,440	2600	8.1	19.8213	6.7585	20,843	2719	8.7	23.3182	25.9146	24,394	2845	8.7	0.6244	18.4661
18,095	2601	9.1	19.8716	0.4468	20,372	2721	8.6	23.7324	15.2691	23,083	2846	8.8	0.7007	5.7960
18,097	2604	9.0	20.1793	0.7473	20,319	2722	9.1	23.9578	14.2650	23,996	2847	8.3	0.8502	14.3587
18,543	2605	8.6	20.9012	8.8829	20,107	2724	7.4	24.3761	9.4443	22,881	2849	9.1	1.5022	3.7836
18,776	2606	8.6	21.2791	13.3864	20,731	2729	8.6	24.5114	23.1106	23,894	2850	9.0	1.5798	13.0924
18,985	2607	9.0	21.2897	15.9268	20,161	2732	9.1	25.3441	10.7474	24,196	2851	8.6	1.7617	15.9627
19,101	2608	8.8	21.2901	18.3368	R.A. 7 <sup>h</sup> 8 <sup>m</sup>					23,896	2853	8.9	1.9960	13.0498
18,778	2609	9.3	21.5238	13.1506	22,465	2719	8.7	1.0715	25.9253	23,556	2857	9.0	2.8890	10.3480
18,549	2613	9.1	22.4010	8.8664	21,759	2721	8.6	1.3526	15.2749	23,904	2861	7.2	3.9554	13.1148
19,105	2614	6.9	22.4492	18.6006	21,692	2722	9.1	1.5654	14.2679	23,911	2866	8.1	4.8715	13.2484
18,456	2616	8.9	23.6489	6.7108	21,431	2724	7.4	1.9233	9.4424	22,995	2867	8.7	4.8587	4.4273
18,104	2617	6.9	23.7328	1.2596	22,305	2729	8.6	2.2296	23.1057	24,204	2869	8.5	5.2853	16.1002
19,530	2624	6.8	24.3400	24.7872	21,491	2732	9.1	2.9075	10.7335	23,565	2872	9.2	5.5960	9.5181
18,462	2625	7.0	24.9104	7.0351	20,916	2737	8.9	3.5118	1.4641	24,494	2874	8.7	5.6915	19.1381
18,463	2629	7.6	25.2973	7.4605	22,042	2739	9.1	4.5457	19.4517	24,115	2875	8.2	6.5164	15.1599
R.A. 7 <sup>h</sup> 0 <sup>m</sup>					21,357	2740	8.7	4.6372	9.2462	25,054	2877	8.6	6.8907	25.7122
20,511	2614	6.9	0.1111	18.6226	21,910	2744	8.9	5.4456	16.7505	23,795	2880	9.3	7.2411	11.9930
19,932	2616	8.9	1.1620	6.7182	21,242	2746	8.8	5.8391	6.9068	23,444	2882	8.8	7.4424	9.4312
19,739	2617	6.9	1.1778	1.2662	22,370	2749	9.5	6.1333	24.6358	23,110	2883	8.9	7.5121	6.0590
20,777	2624	6.8	2.0793	24.7843	21,245	2750	8.8	6.2369	7.2967	22,587	2886	8.7	8.3066	0.3852
19,934	2625	7.0	2.4275	7.0270	22,371	2760	9.7	7.7792	23.9395	..	2887	8.7	8.4273	0.1266
19,971	2629	7.6	2.8197	7.4475	20,990	2762	8.0	7.8262	2.3394	23,127	2891	9.1	9.5846	6.4200
20,684	2633	8.2	4.1424	22.9172	..	2766	9.0	9.2013	0.1637	24,420	2893	8.9	9.7206	17.7184
19,885	2636	9.1	4.3966	6.1888	20,994	2768	8.9	9.4334	2.4746	23,221	2894	9.0	9.7229	6.7668
20,334	2637	8.8	4.5144	14.9186	21,857	2769	8.9	9.5947	15.9067	24,218	2895	9.1	9.8149	16.2901
20,121	2643	8.8	5.9512	10.7371	20,873	2771	9.0	10.3363	1.1843	24,907	2896	8.3	10.3895	23.3828
20,381	2645	8.5	6.5814	15.6047	22,193	2772	8.5	10.4232	20.6559	24,909	2897	8.9	10.8455	22.8480
20,559	2646	8.6	7.8181	20.0832	20,936	2776	8.9	10.8217	1.5775	24,227	2900	9.1	11.5534	15.8596
20,223	2648	8.9	8.3073	12.4882	22,055	2778	9.1	10.9385	19.3734	23,233	2902	7.7	12.2947	7.2181
20,743	2650	9.0	8.5879	23.5721	21,451	2780	6.3	11.2621	9.6079	23,334	2903	9.0	12.3797	7.6787
20,414	2651	8.8	8.6030	17.0815	20,879	2782	8.9	11.9024	1.1919	24,703	2904	9.2	12.5173	21.3648
19,710	2652	9.0	8.5640	0.6193	21,072	2784	9.0	12.2939	3.8447	24,704		2906	8.5	13.2993
19,774	2653	9.0	8.7903	3.1498	21,719	2788	8.8	12.7729	14.3183	24,917	2908	9.2	13.7840	13.5042
19,981	2656	8.4	9.5160	8.2802	22,438	2790	8.8	13.0491	24.9829	23,944	2912	8.2	14.5998	6.5335
20,415	2657	8.3	9.8973	16.5244	21,191	2791	9.0	13.1007	6.2971	23,245	2913	8.7	14.6267	17.6498
19,944	2661	9.0	10.3241	7.2225	21,269	2792	8.9	13.4436	6.7451	24,343	2915	9.1	15.3801	1.4094
20,656	2665	8.4	11.2237	22.2491	21,579	2794	9.0	13.5647	11.7621	22,616	2917	9.1	15.5718	7.9884
19,857	2666	8.7	11.3700	4.2609	22,129	2795	8.6	13.8430	19.9614	23,357	2919	9.1	15.5718	7.9884
20,524	2667	9.0	11.6629	18.9167	21,200	2800	8.7	15.3502	5.9429	23,036	2921	9.0	16.8385	5.0939
19,985	2668	9.1	11.8684	7.6033	20,949	2801	9.2	15.6831	1.7447	22,938	2922	8.9	16.9955	3.6747
20,572	2669	8.8	12.2916	20.4941	22,076	2802	8.7	16.0636	19.4879	23,046	2928	7.3	18.7468	4.8013
20,291	2673	7.9	12.8209	14.4027	21,318	2804	8.7	16.2373	7.7658	23,970	2932	9.0	19.4615	13.0270
20,425	2674	8.3	12.8463	16.4630	21,582	2806	8.5	16.2853	12.4720	23,378	2933	9.0	20.0019	7.7890
20,707	2678	6.3	14.4613	23.5644	21,800	2808	9.3	16.5228	15.2035	24,269	2934	8.1	20.0470	16.5409
20,036	2679	7.1	14.6401	9.1560	21,870	2809	8.7	16.9616	16.4302	24,360	2935	9.0	20.3012	17.1569
20,184	2681	8.7	14.7707	11.8699	21,657	2813	8.9	17.4312	12.6792	22,642	2936	7.7	21.6062	1.4662
19,756	2683	7.0	15.1355	1.6206	21,140	2814	9.2	17.5445	5.3340	23,383	2937	9.0	21.0336	8.2703
20,529	2685	8.8	15.1881	18.5362	21,585	2819	9.0	18.3276	12.2322	24,168	2940	9.0	21.4759	15.3913
19,993	2686	8.3	15.2452	7.8243	21,467	2823	8.7	18.8112	9.9770	23,273	2941	9.0	21.7248	6.9506
20,433	2687	7.5	15.2869	16.6028	21,588	2824	8.8	18.9553	12.2199	24,370	2942	8.5	21.7790	16.8069
19,825	2689	9.0	16.1192	4.0851	22,276	2825	8.8	18.9622	22.5877	24,171	2946	9.1	22.3575	15.4870
20,041	2694	8.5	16.8814	8.6881	22,340	2827	8.8	19.3149	23.8059	22,650	2950	8.3	22.9010	1.0017
20,666	2697	9.2	17.2545	22.5536	21,592	2830	8.7	19.6474	11.8413	23,276	2951	8.7	23.0079	7.2054
20,497	2699	9.3	18.1157	17.7173	21,527	2832	8.3	19.9899	11.2195	24,470	2952	8.6	23.7594	17.9191
20,149	2700	8.6	18.6199	11.3301	22,220	2835	8.4	20.6250	21.6046	24,287	2955	9.3	24.2029	16.6115
20,720	2703	8.2	19.4567	23.3366	21,476	2838	8.5	21.4871	10.5561	23,403	2958	9.1	25.2092	8.1620
20,801	2704	9.1	19.5607	24.7115	22,285	2839	8.8	21.4761	22.5967	23,285	2959	9.2	25.3106	7.2272
20,397	2705	9.0	19.6371	16.2635	..	2841	8.3	22.1141	0.4589	R.A. 7 <sup>h</sup> 24 <sup>m</sup>				
20,721	2706	8.9	19.6528	22.6655	22,026	2845	8.7	22.9644	18.4508	25,201	2950	8.3	0.3427	1.0182
20,446	2708	9.0	19.8940	16.7025	21,222	2846	8.8	23.1991	5.7832	25,625	2951	8.7	0.5273	7.2204
20,501	2709	8.8	20.0009	17.8438	21,750	2847	8.3	23.2415	14.3467	26,558	2952	8.6	1.4128	17.9244
20,589	2711	9.2	20.3892	20.3218	21,102	2849	9.1	24.0257	3.7808	26,488	2955	9.3	1.8399	16.6112
20,591	2713	9.1	20.9705	19.5765	21,673	2850	9.0	23.9869	13.0897	25,708	2958	9.1	2.7403	8.1499
19,790	2714	8.4	21.3408	2.5724	21,892	2851	8.6	24.1329	15.9621	25,633	2959	9.2	2.8301	7.2140
20,805	2715	8.7	21.2378	25.6185	21,674	2853	8.9	24.4037	13.0523	26,004	2964	8.9	3.7288	10.9020
20,593	2716	9.2	21.6662											



Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.	
Hyd.	Algiers.		ξ'	η'	Hyd.	Algiers.		ξ'	η'	Hyd.	Algiers.		ξ'	η'
R.A. 7 <sup>h</sup> 24 <sup>m</sup> (continued)					R.A. 7 <sup>h</sup> 32 <sup>m</sup> (continued)					R.A. 7 <sup>h</sup> 40 <sup>m</sup> (continued)				
26,175	2965	8.3	3.7944	12.5693	28,120	3075	9.0	8.4944	10.1932	30,960	3179	9.2	11.1718	8.2076
26,177	2967	7.1	4.0754	12.7382	30,095	3079	9.3	9.3871	24.9921	33,080	3180	8.4	11.3653	24.1521
26,013	2968	8.4	4.2525	10.9394	27,470	3083	8.9	10.4915	4.3132	31,327	3183	8.8	12.0792	10.5392
26,884	2969	6.2	4.7730	22.4406	27,570	3084	9.0	10.8316	4.7089	31,207	3186	9.0	13.5657	10.1341
26,808	2971	9.0	5.2422	21.5019	29,139	3085	8.9	10.8691	18.5014	30,582	3187	8.9	13.9046	3.7120
25,935	2972	8.0	5.8795	10.1216	28,872	3086	8.7	11.2335	16.1422	32,564	3188	9.0	13.1813	19.9489
25,425	2977	8.6	6.9226	3.4482	27,320	3091	8.8	12.1897	1.6418	31,342	3189	9.0	14.4919	10.7439
27,062	2978	8.8	7.0959	25.2338	30,200	3092	8.5	12.3174	25.8633	32,009	3191	9.1	15.1815	15.5560
25,940	2979	7.7	7.0778	9.4910	28,483	3093	9.1	12.5113	13.1468	30,985	3194	9.1	15.3959	7.8235
26,894	2980	9.1	7.5105	22.2670	29,988	3094	7.1	12.5296	24.2587	33,229	3196	8.5	15.5296	24.7657
26,896	2983	9.0	8.2288	22.5599	29,587	3095	8.6	12.7254	21.3441	33,349	3199	8.8	16.1031	25.9246
27,067	2985	8.9	8.6823	25.2258	28,033	3101	8.9	14.5674	9.3654	30,413	3201	9.1	16.7064	1.8727
25,834	2986	9.4	9.2484	9.4215	28,260	3102	8.7	14.6669	10.9491	30,783	3204	8.8	17.2839	5.7206
26,728	2987	8.9	9.4680	20.4436	28,753	3103	7.6	14.9074	15.0517	30,882	3205	8.9	17.2921	6.3911
25,742	2991	9.5	10.4981	8.0209	27,600	3105	9.1	15.0702	5.2792	33,001	3206	9.1	17.2765	23.2460
25,743	2992	9.9	10.5504	7.9612	27,335	3106	8.5	15.3316	1.8632	31,621	3207	9.1	17.3705	12.6650
26,130	2995	8.2	10.8809	12.3196	29,169	3108	9.3	15.6245	17.9717	30,886	3210	8.5	17.8967	7.1973
25,226	2996	8.8	11.0694	0.3536	27,715	3110	8.9	15.7140	5.5640	31,625	3211	9.0	18.0170	12.7337
25,228	2997	8.6	11.4615	1.0586	30,130	3112	9.1	18.7394	25.1413	32,162	3214	9.2	18.6004	17.2727
25,229	2999	8.4	11.5515	0.7442	29,477	3113	8.7	18.9009	20.1912	32,164	3215	8.2	18.9062	16.6206
25,511	3000	9.0	11.7543	4.5267	29,620	3114	9.4	19.5380	20.7786	32,891	3216	9.1	19.0088	22.2413
26,835	3001	9.0	11.8666	21.1065	27,833	3118	9.0	20.2360	6.7424	32,025	3218	9.0	19.4656	15.6138
26,212	3004	8.8	12.3866	12.9831	27,353	3119	8.2	20.2617	1.5176	31,014	3219	8.1	19.7476	8.0456
26,140	3006	9.1	13.5463	12.4784	28,656	3120	9.1	20.4160	14.4001	31,504	3220	9.4	20.3793	12.0035
25,581	3007	8.9	13.9849	6.3058	27,425	3122	8.9	21.0519	2.4931	31,756	3221	9.2	20.6513	13.9194
26,917	3008	8.8	13.8963	22.1020	27,280	3124	9.0	22.5382	1.2439	30,896	3225	9.1	21.2529	6.8903
26,747	3009	7.9	14.0833	20.1963	30,043	3126	8.5	22.8081	24.5956	31,117	3227	9.2	21.5837	8.9222
25,243	3011	8.9	14.7143	0.4664	27,971	3129	8.9	23.4141	8.0028	31,019	3228	8.8	21.6957	7.5357
26,369	3013	8.9	15.0966	15.1912	29,942	3134	7.8	24.4570	22.8228	32,044	3232	9.3	23.0043	15.8021
26,752	3014	8.7	15.4552	20.5210	28,300	3135	9.0	24.5554	10.5816	31,771	3233	9.1	23.1341	14.3701
26,844	3017	8.5	16.0249	20.9520	27,848	3136	9.0	24.8165	7.3609	31,773	3234	9.1	23.2145	14.1702
25,310	3018	9.2	16.1689	2.2382	28,551	3137	9.0	24.9653	12.9962	30,336	3240	8.6	24.3678	0.9693
26,845	3020	8.5	16.2621	20.8251	29,658	3139	9.0	25.2127	21.5784	31,256	3241	9.3	24.6351	10.0452
27,098	3021	8.9	16.3947	24.8993	28,199	3140	8.6	25.3969	9.7199	32,910	3242	7.7	24.9036	22.1604
25,775	3023	8.9	17.4954	8.0777	27,437	3142	8.8	26.0276	2.6034	R.A. 7 <sup>h</sup> 48 <sup>m</sup>				
25,779	3028	8.0	18.9167	8.2003	R.A. 7 <sup>h</sup> 40 <sup>m</sup>					34,240	3232	9.3	0.6312	15.8169
26,545	3029	8.6	19.1276	17.2670	..	3124	9.0	0.0170	1.2648	34,085	3233	9.1	0.7431	14.3835
26,769	3032	8.3	19.8340	20.2150	33,026	3126	8.5	0.5450	24.6129	34,087	3234	9.1	0.8210	14.1826
26,615	3034	9.2	20.6215	17.9709	30,911	3129	8.9	0.9434	8.0130	33,402	3240	8.6	1.8090	0.9681
26,850	3035	8.9	21.0606	21.1241	32,923	3134	7.8	2.1717	22.8188	33,825	3241	9.3	2.1899	10.0402
26,238	3037	9.1	21.4087	13.3040	31,269	3135	9.0	2.1169	10.5773	34,615	3242	7.7	2.6099	22.1505
26,619	3038	8.9	21.5159	18.2350	30,916	3136	9.0	2.3378	7.3538	34,031	3245	8.7	5.1272	13.4200
26,692	3040	8.7	21.8392	19.4099	31,541	3137	9.0	2.5569	12.9867	33,405	3250	6.8	5.5642	0.4339
26,937	3042	8.7	22.6011	22.3667	32,646	3139	9.0	2.9118	21.5646	34,033	3251	9.5	5.7795	13.6142
25,987	3043	8.7	22.8605	9.6447	31,147	3140	8.6	2.9476	9.7054	33,711	3253	9.3	6.7404	8.1199
25,536	3046	8.5	23.5886	5.0709	30,443	3142	8.8	3.4890	2.5823	34,195	3256	9.4	7.7992	15.1739
26,864	3054	8.7	25.0190	21.6353	31,557	3145	7.8	4.1286	13.1920	34,627	3261	8.0	8.5702	22.6263
25,792	3058	8.8	25.4356	7.9879	30,353	3146	8.6	4.2462	2.2262	34,271	3267	9.0	10.1958	16.1549
25,894	3059	8.7	25.4685	9.3857	30,448	3147	8.8	4.2581	2.6458	33,903	3269	9.2	10.3649	11.3829
R.A. 7 <sup>h</sup> 32 <sup>m</sup>					32,510	3148	9.4	4.5394	20.5656	33,981	3276	8.9	11.1865	12.5669
29,667	3042	8.7	0.3102	22.3867	30,827	3151	9.0	4.9282	6.8383	33,982	3277	6.3	11.2131	12.0212
28,084	3043	8.7	0.4104	9.6617	31,561	3152	8.9	5.1496	13.2149	33,671	3278	7.8	11.4077	6.5602
27,525	3046	8.5	1.0813	5.0790	31,837	3153	8.6	5.7850	14.6303	34,050	3280	9.0	11.7521	13.3711
29,527	3054	8.7	2.7192	21.6240	30,265	3156	9.2	6.4042	0.8050	34,057	3281	9.3	13.2740	12.8640
27,860	3058	8.8	2.9644	7.9732	33,182	3159	9.1	6.8571	24.9794	34,636	3282	8.8	13.4784	21.9046
27,988	3059	8.7	3.0149	9.3704	33,184	3160	9.0	7.2038	24.7880	34,211	3285	8.6	13.8315	14.7369
30,168	3062	8.6	3.7492	25.8840	32,677	3163	8.6	7.7987	21.4092	34,719	3287	7.0	14.1956	24.5908
27,760	3063	8.7	4.0687	6.8786	33,063	3167	9.2	8.6058	24.2530	33,853	3288	9.1	14.5398	9.9156
29,682	3066	8.9	4.4201	21.6837	30,559	3168	8.9	8.5801	3.7687	34,139	3291	9.2	15.0031	14.2068
30,171	3067	8.9	4.6118	25.9650	30,753	3169	9.1	8.6090	5.6267	34,723	3296	8.6	15.6549	24.7122
29,096	3069	9.1	5.1980	18.0951	32,402	3171	8.8	9.0880	19.2488	34,590	3299	8.7	16.9302	20.9332
30,180	3070	5.3	6.8040	25.9725	32,834	3172	7.9	9.1438	22.0555	33,858	3300	8.8	17.4675	10.2625
..	3071	7.7	6.9102	0.0463	33,315	3174	8.0	10.2979	25.7285	33,737	3301	9.3	17.5348	8.4116
28,118	3072	8.8	7.7532	10.4475	30,954	3175	9.2	10.4933	8.3304	34,643	3303	8.7	17.7285	22.2217
27,467	3073	8.8	7.8999	3.6514	32,962	3176	9.1	10.5912	23.5778	34,645	3305	9.0	18.7757	21.9396
28,599	3074	8.2	8.0941	14.0634	31,718	3177	8.5	10.9117	13.5185	33,692	3307	9.3	19.4180	6.8961



Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900 0.			Mag.		Standard co-ordinates, 1900 0.			Mag.		Standard co-ordinates, 1900 0.		
Hyd.	Algiers	ξ	η		Hyd.	Algiers	ξ	η		Hyd.	Algiers	ξ	η	
<b>R.A. 7<sup>h</sup> 48<sup>m</sup> (continued)</b>					<b>R.A. 8<sup>h</sup> 4<sup>m</sup> (continued)</b>					<b>R.A. 8<sup>h</sup> 12<sup>m</sup> (continued)</b>				
34,049	3312	8.9	21.5122	22.1242	37,429	3420	9.0	4.8195	17.2813	38,600	3514	8.0	3.9934	12.3003
34,605	3314	9.1	22.2138	21.1969	37,602	3422	8.6	5.7154	20.0942	38,886	3517	8.8	4.6659	16.1897
33,606	3315	9.4	22.4570	5.5235	37,002	3424	8.6	6.0551	9.1029	38,172	3519	8.1	4.8121	4.2922
33,694	3316	9.3	22.6424	7.0605	37,604	3427	9.1	6.4804	20.3638	38,603	3520	9.2	5.1377	12.1960
33,428	3319	9.2	24.1306	1.3854	36,697	3429	8.7	6.5491	3.8566	38,605	3521	9.1	5.2698	12.2840
33,505	3320	7.7	24.1703	3.3947	36,764	3432	8.6	7.0739	4.9169	39,454	3522	8.4	5.6707	25.4832
33,947	3322	8.1	24.8602	10.6641	37,850	3434	8.3	7.6132	24.2844	38,746	3526	8.5	6.5477	14.0123
<b>R.A. 7<sup>h</sup> 56<sup>m</sup></b>					37,728	3435	9.1	7.6653	22.0195	39,457	3528	9.0	8.1010	25.2410
35,196	3316	9.3	0.1601	7.0800	36,614	3436	8.8	7.6351	1.5668	38,109	3530	8.9	8.4135	1.5358
34,899	3319	9.2	1.5771	1.3871	37,271	3438	8.9	7.9430	14.0895	38,955	3532	8.0	9.1473	17.4420
35,021	3320	7.7	1.6419	3.3959	36,701	3439	8.6	8.1143	3.9759	39,021	3533	9.2	9.3426	18.1971
35,462	3322	8.1	2.4227	10.6563	37,971	3441	9.3	8.2334	25.9949	38,686	3534	8.8	9.3366	13.4460
34,903	3330	8.9	5.1175	1.4925	37,433	3443	8.5	8.6396	17.2021	38,956	3535	9.3	9.6436	16.6516
35,026	3331	9.1	5.7964	3.9603	37,494	3445	8.8	9.5594	17.6961	38,833	3540	8.9	12.2905	15.3335
34,980	3332	7.8	5.9566	2.9265	36,772	3446	6.9	9.8702	4.1851	38,118	3545	8.8	13.2034	1.7678
35,078	3337	8.8	6.9746	4.9595	37,437	3447	9.3	9.9869	17.2107	38,469	3546	8.6	13.5673	9.5108
35,213	3341	9.2	7.6201	7.3900	37,734	3448	8.6	10.0119	22.1231	39,167	3548	7.3	14.0067	19.8842
35,821	3344	8.5	7.9948	15.6104	37,735	3449	9.2	10.1853	21.9058	38,700	3550	6.5	14.4044	13.1455
35,606	3346	9.0	9.1931	12.6724	37,328	3450	9.2	10.2490	14.6868	39,416	3551	8.9	14.7208	24.3700
35,471	3348	9.1	9.2798	10.8392	36,824	3453	8.6	11.0648	5.7285	38,194	3552	9.1	14.7798	4.1084
34,916	3349	8.4	9.4408	1.9507	37,332	3455	9.1	11.4098	15.2927	38,316	3553	9.2	14.8247	5.6303
36,317	3351	8.2	9.7778	22.8674	37,170	3456	9.1	11.6492	11.3265	38,969	3554	9.1	14.8610	16.6853
35,473	3353	9.1	10.2372	10.6391	37,809	3457	8.3	12.5089	23.1288	38,472	3555	9.1	15.1921	9.5300
36,192	3355	8.9	10.7274	21.1895	36,715	3458	9.0	13.0516	3.7548	39,094	3556	8.5	15.7980	19.2361
36,193	3356	9.1	10.7506	20.7883	37,384	3460	9.2	13.1697	15.7520	38,518	3559	9.2	16.1298	10.1020
36,114	3358	9.0	10.9565	20.3965	37,335	3462	9.2	13.2536	15.0893	39,100	3562	8.8	17.0334	18.8618
34,990	3360	8.5	11.3398	3.1018	36,837	3466	9.3	13.6539	5.5608	38,122	3563	9.2	17.1283	2.4148
36,457	3362	8.4	11.8516	25.1429	36,628	3467	7.0	13.8558	1.8536	38,423	3564	9.2	17.2123	8.4625
35,675	3363	8.4	12.0738	13.7145	37,505	3469	8.2	14.3481	17.8929	38,079	3568	8.7	18.3760	0.5316
35,288	3364	9.1	12.3920	8.1873	36,717	3471	8.0	14.7691	3.4496	38,081	3569	8.7	18.4653	0.6942
..	3368	8.7	14.0441	0.2548	37,393	3472	8.0	15.4861	16.3727	39,181	3571	9.4	19.0207	20.5057
35,434	3371	9.2	15.4128	10.2366	37,512	3473	9.3	16.1281	17.7342	39,306	3574	8.6	19.1277	22.1102
36,469	3372	7.3	15.7178	25.7238	37,449	3474	9.1	16.2871	16.5834	38,202	3575	8.7	19.4947	3.8048
36,470	3373	8.1	15.8518	25.6855	36,587	3476	8.5	16.4385	0.2447	38,926	3576	8.5	19.5782	16.1709
35,686	3375	9.0	16.2488	14.0550	36,589	3478	9.2	16.7537	0.5611	38,381	3577	9.2	19.6738	6.8730
35,562	3376	7.9	16.8186	11.5888	37,573	3479	9.0	16.9163	18.7802	39,375	3578	8.7	19.6910	22.8867
35,927	3377	9.2	16.8241	17.3065	36,907	3483	9.2	17.0502	7.0790	39,376	3579	9.1	19.9150	23.5267
35,052	3379	8.8	17.1937	3.5678	37,024	3484	9.0	18.3901	8.3616	39,429	3581	9.0	20.3548	24.1318
35,299	3380	8.6	17.4152	7.9822	37,692	3489	9.2	19.1873	20.9905	38,085	3582	9.2	20.7601	1.1105
34,943	3385	7.8	18.8303	1.4760	37,628	3490	9.0	19.2682	19.7888	39,250	3584	9.0	20.9594	21.5306
36,410	3386	9.1	18.8858	24.1703	37,290	3492	9.2	19.4513	14.2833	38,651	3587	8.0	21.7206	12.3278
36,413	3387	8.6	19.2960	24.8112	36,845	3493	8.9	19.5168	5.3432	39,492	3588	9.0	21.9072	25.4290
35,305	3388	8.9	19.4075	7.5918	37,190	3497	9.4	21.0124	11.8486	39,433	3589	9.3	21.9647	24.3250
35,179	3389	8.9	19.4913	5.9042	36,596	3498	8.3	21.7543	0.9791	38,385	3591	9.1	22.5730	7.4331
35,782	3390	9.2	19.8164	14.6994	37,192	3499	9.0	22.2101	11.9688	38,090	3592	8.9	23.3190	0.4904
35,009	3391	8.6	20.0624	3.3555	37,534	3500	9.0	22.5836	18.4423	39,441	3596	9.3	24.3715	24.2255
35,506	3392	9.2	20.5826	10.9762	37,954	3501	9.6	22.8379	25.0810	39,058	3598	8.6	24.5585	18.1269
36,225	3394	8.9	20.9328	21.7551	36,794	3502	8.9	23.1943	4.7343	39,195	3600	9.4	25.2489	20.0334
35,250	3396	8.3	22.2761	6.9699	37,704	3503	8.6	23.2386	21.3597	39,197	3603	9.6	25.8691	20.0772
35,711	3400	8.2	23.3747	14.1549	36,857	3504	9.4	23.3562	6.0168	<b>R.A. 8<sup>h</sup> 20<sup>m</sup></b>				
36,087	3401	8.3	23.4316	19.4314	36,858	3505	9.0	23.5090	5.7086	39,877	3591	9.1	0.0951	7.4536
35,712	3402	9.2	23.9162	13.7303	37,586	3506	9.0	23.6711	18.7467	39,552	3592	8.9	0.7543	0.5020
35,713	3403	8.4	24.1266	14.5758	37,089	3508	8.8	24.6504	9.9336	40,866	3596	9.3	2.1037	24.2224
34,958	3406	8.9	24.4993	2.2946	37,090	3509	8.8	24.8345	9.8134	40,505	3598	8.6	2.2144	18.1219
35,643	3410	9.2	25.0268	12.8943	37,643	3511	9.0	24.8665	19.7019	40,638	3600	9.4	2.9286	20.0194
35,644	3411	9.3	25.5058	12.7492	<b>R.A. 8<sup>h</sup> 12<sup>m</sup></b>					40,640	3603	9.6	3.5491	20.0552
<b>R.A. 8<sup>h</sup> 4<sup>m</sup></b>					39,004	3500	9.0	0.2436	18.4626	39,819	3609	6.9	4.7801	6.7382
37,258	3400	8.2	0.9809	14.1652	39,445	3501	9.6	0.5808	25.0978	39,770	3612	8.2	5.3645	5.4528
37,592	3401	8.3	1.1039	19.4408	38,217	3502	8.9	0.6827	4.7472	39,598	3613	9.1	5.3857	2.1488
37,260	3402	9.2	1.5172	13.7339	39,199	3503	8.6	0.9350	21.3715	40,380	3614	9.2	5.5193	16.2195
37,305	3403	8.4	1.7381	14.5766	38,274	3504	9.4	0.8607	6.0276	40,575	3616	9.2	6.2769	18.6510
36,656	3406	8.9	1.9572	2.2917	38,275	3505	9.0	1.0095	5.7156	40,265	3618	8.5	6.8432	13.6426
37,210	3410	9.2	2.6179	12.8841	39,062	3506	9.0	1.3348	18.7530	39,823	3620	6.8	7.0214	7.1683
37,211	3411	9.3	3.0943	12.7330	38,501	3508	8.8	2.2037	9.9284	40,931	3621	9.2	7.2558	24.9267
36,995	3418	8.7	4.3451	8.5238	38,503	3509	8.8	2.3864	9.8049	40,384	3623	9.3	7.8721	16.3905
					39,124	3511	9.0	2.5421	19.6929	40,824	3624	8.6	8.0650	22.7636



Reference No.		Mag.	Standard co-ordinates, 1900 0		Reference No.		Mag.	Standard co-ordinates, 1900 0		Reference No.		Mag.	Standard co-ordinates, 1900 0.	
Hyd.	Algiers		ξ'.	η'.	Hyd.	Algiers		ξ'.	η'.	Hyd.	Algiers.		ξ'.	η'.
R.A. 8 <sup>h</sup> 20 <sup>m</sup> (continued)					R.A. 8 <sup>h</sup> 28 <sup>m</sup> (continued)					R.A. 8 <sup>h</sup> 36 <sup>m</sup> (continued)				
40,386	3625	9.0	8.1126	15 7075	41,763	3744	8.8	14 5972	17.8645	42,940	3868	8.0	25.0923	24.2631
40,825	3626	8.3	8.1898	22.7344	41,267	3745	9.1	14.9724	6.3962	42,484	3869	6.5	25.4757	10.7059
39,829	3627	8.6	8.8028	6.3073	42,055	3746	8.2	15.1052	24.8488	42,295	3870	8.8	25.7156	4.6768
40,397	3631	8.8	9.7903	16.0869	41,925	3754	8.4	17.2254	21.3078	R.A. 8 <sup>h</sup> 44 <sup>m</sup>				
40,089	3636	8.8	10.8255	10.9453	41,651	3755	7.3	17.6169	15.0850	43,379	3858	8.8	0.6128	16.5302
40,032	3637	8.6	10.9019	9.9209	41,274	3756	8.3	17.8678	6.0965	43,382	3860	9.0	1.1655	16.0306
40,461	3638	9.0	11.0699	16.5544	41,492	3758	8.4	18.5443	11.3129	43,383	3862	8.5	1.4336	16.3983
40,149	3641	8.7	11.5396	11.5409	41,230	3759	9.0	19.0274	4.9232	43,133	3863	8.8	1.4060	6.6979
39,841	3642	9.0	11.6111	7.2643	41,569	3760	9.0	19.0886	13.6507	43,408	3866	8.9	1.8830	17.0808
40,404	3643	9.1	11.7105	16.4635	41,190	3765	8.5	19.5114	3.6100	43,618	3868	8.0	2.8249	24.2506
40,211	3645	9.0	12.0891	12.6439	41,529	3766	8.9	19.7106	12.5613	43,242	3869	6.5	3.0386	10.6904
40,940	3646	8.6	12.7877	25.6661	41,615	3768	7.9	19.8259	14.3942	43,090	3870	8.8	3.2031	4.6591
40,346	3651	8.9	14.7567	14.7559	41,192	3770	9.4	20.2307	4.4585	43,108	3873	8.6	4.1771	5.5695
40,476	3652	8.9	14.8205	16.6653	42,008	3771	9.1	20.2364	23.5948	43,587	3876	8.9	5.0946	23.7372
40,795	3653	9.2	15.2289	22.3537	42,069	3772	7.6	20.4504	23.9205	43,289	3877	9.3	5.1286	13.3206
39,800	3654	8.8	15.4400	6.0653	42,106	3774	8.9	20.5536	25.3944	43,026	3883	8.1	6.8329	1.7664
40,038	3655	6.4	15.4954	9.6663	41,083	3777	8.6	21.4693	1.1177	43,479	3886	9.2	7.5518	19.2170
40,899	3656	9.1	15.4850	24.1781	41,498	3779	8.9	22.2405	11.4144	43,390	3891	9.2	8.7695	16.6068
40,841	3657	7.5	15.5468	22.7888	41,882	3781	9.1	22.5418	20.7859	43,640	3892	9.2	8.9466	25.0180
40,409	3658	8.8	15.7937	16.0129	41,416	3784	8.0	23.6916	9.6014	43,006	3893	8.4	9.1766	0.4885
40,952	3661	9.0	16.9999	25.6980	41,888	3785	8.9	23.7437	20.5963	43,097	3895	9.3	10.1645	4.6050
40,165	3666	9.2	17.8945	12.0950	41,890	3786	9.1	24.1074	20.6521	43,113	3897	8.4	10.7409	6.0511
40,354	3667	9.2	17.9594	15.3253	41,196	3789	8.9	24.9804	4.4582	43,367	3898	9.3	10.7755	15.4551
40,104	3670	9.2	18.7409	11.2058	R.A. 8 <sup>h</sup> 36 <sup>m</sup>					43,482	3900	9.4	11.0427	19.3860
40,419	3671	8.6	18.9330	15.8287	42,793	3781	9.1	0.2310	20.8067	43,600	3901	9.4	11.8915	23.7375
39,804	3672	9.2	19.0627	5.9938	42,434	3784	8.0	1.2409	9.6079	43,643	3902	9.4	11.9695	25.4170
40,422	3678	9.4	19.8837	16.5865	42,795	3785	8.9	1.4306	20.6016	43,305	3904	8.9	12.5406	12.7198
39,806	3679	9.3	19.9589	5.4708	42,797	3786	9.1	1.7950	20.6527	43,485	3905	8.7	12.7986	19.2342
39,700	3682	9.2	21.2574	4.3765	42,263	3789	8.9	2.4654	4.4495	43,119	3908	9.0	13.4181	5.6620
39,747	3683	9.2	21.3173	5.2084	42,493	3792	8.8	4.3831	11.4699	43,251	3911	9.2	14.4979	11.3516
39,996	3684	8.5	21.3312	8.8803	42,606	3794	9.2	4.8211	15.0832	43,032	3912	9.1	15.1010	2.2313
40,851	3685	9.1	21.3557	23.1077	42,154	3796	7.9	5.7640	0.5641	43,489	3913	9.2	15.2605	19.0489
39,868	3686	6.9	21.7330	7.1846	42,229	3798	8.8	6.1634	4.2163	43,203	3918	7.3	16.5343	9.1024
39,928	3688	9.0	23.2078	8.2936	42,177	3799	9.0	6.5959	1.9697	43,526	3920	9.4	17.6212	19.8914
40,967	3689	9.0	23.6682	24.9624	42,769	3802	9.1	6.9142	20.2359	43,497	3921	9.2	18.2839	19.3869
40,694	3690	9.2	23.6982	20.1212	42,884	3804	8.7	6.9411	22.9542	43,230	3922	8.2	18.4007	10.2720
39,933	3695	7.4	25.4890	8.4516	42,535	3805	9.0	7.5076	13.2898	43,609	3925	9.1	19.2044	23.6954
39,759	3696	9.0	25.5828	4.6135	42,270	3808	9.1	8.3495	4.3957	43,233	3926	8.3	19.2620	9.5784
40,812	3697	9.2	25.4669	22.0523	42,835	3810	8.2	9.0447	21.7910	43,577	3928	9.1	19.6250	22.7621
R.A. 8 <sup>h</sup> 28 <sup>m</sup>					42,183	3813	9.2	9.7874	1.9278	43,128	3929	9.2	20.0850	6.1804
41,323	3688	9.0	0.7408	8.3064	42,574	3815	9.0	9.9820	14.2836	43,632	3930	8.5	20.2963	24.8245
42,078	3689	9.0	1.4097	24.9684	42,380	3817	9.2	10.2056	7.7901	43,060	3933	8.0	20.9024	2.7443
41,839	3690	9.2	1.3791	20.1271	42,774	3818	8.3	10.3807	19.8775	43,084	3934	8.6	22.1615	3.7162
41,327	3695	7.4	3.0237	8.4362	42,213	3819	9.1	10.4928	2.9103	43,612	3935	8.9	22.7185	23.5927
41,207	3696	9.0	3.0695	4.5971	42,579	3821	8.4	11.5370	13.4959	43,501	3936	9.1	23.1957	19.5177
41,941	3697	9.2	3.1718	22.0350	42,310	3825	8.8	12.3402	6.1262	43,634	3938	9.1	23.6610	23.9229
42,080	3699	9.1	3.7039	25.0033	42,273	3826	8.0	12.4479	4.2617	43,062	3940	8.6	24.0652	2.9137
41,380	3701	8.6	4.1136	9.5178	42,414	3830	7.8	13.0309	8.9013	43,348	3941	8.3	24.0263	14.4222
41,744	3702	9.1	4.5067	18.4914	42,508	3831	8.5	13.2727	12.3483	43,433	3942	8.9	24.7826	17.2537
41,425	3704	9.0	4.7821	10.5486	42,348	3834	8.0	13.7818	6.7330	43,635	3943	8.7	25.4000	23.9829
41,511	3705	8.5	4.9293	12.3835	42,418	3835	9.0	14.5907	8.4456	R.A. 8 <sup>h</sup> 52 <sup>m</sup>				
41,339	3708	7.7	6.6779	7.7785	42,897	3841	8.0	16.2186	23.0554	44,208	3935	8.9	0.4428	23.6111
41,058	3709	8.1	6.9970	0.3945	42,821	3842	7.1	17.1181	21.0563	44,111	3936	9.1	0.8690	19.5301
41,295	3712	8.7	7.4368	7.4633	42,555	3843	8.9	18.0625	12.8005	44,231	3938	9.1	1.3895	23.9290
42,085	3713	9.0	7.8078	25.7971	42,959	3847	8.6	18.9385	25.3460	43,745	3940	8.6	1.5309	2.9162
41,475	3714	8.8	7.8755	11.2220	42,653	3848	8.8	19.0490	15.5834	43,980	3941	8.3	1.6359	14.4243
41,060	3716	8.1	9.0664	0.6108	42,558	3849	8.9	19.2143	13.3571	44,062	3942	8.9	2.4275	17.2462
41,062	3722	9.0	10.1468	1.1097	42,288	3851	9.0	19.9413	4.8059	44,232	3943	8.7	3.1291	23.9664
41,431	3724	7.8	10.4553	9.8835	42,904	3852	8.8	20.2293	23.5051	44,183	3944	8.2	3.6495	21.8951
41,300	3729	8.7	11.7314	6.5690	42,823	3853	8.5	20.8596	20.6661	43,986	3946	9.0	4.5409	13.8154
41,675	3730	8.9	12.0386	15.9502	42,453	3856	8.6	21.5702	9.9845	43,860	3949	8.8	5.4588	8.3625
41,394	3733	9.2	12.1137	9.5055	42,699	3858	8.8	22.9770	16.5149	43,725	3951	7.6	5.7382	1.6157
41,262	3735	9.1	12.3706	5.8106	42,662	3860	9.0	23.5359	16.0224	44,086	3954	8.7	6.8727	18.1735
41,181	3736	9.0	13.0901	3.8738	42,663	3862	8.5	23.7993	16.3933	43,928	3956	8.6	7.6078	11.2471
41,564	3737	9.1	13.2213	12.7713	42,361	3863	8.8	23.8930	6.6940	43,993	3961	9.2	9.9222	14.7367
..	3739	9.1	13.6906	0.3057	42,700	3866	8.9	24.2401	17.0816					







Reference No.		Mag.	Standard co-ordinates, 1900-0		Reference No.		Mag.	Standard co-ordinates, 1900-0		Reference No.		Mag.	Standard co-ordinates, 1900-0	
Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.
R.A. 9 <sup>h</sup> 40 <sup>m</sup>					R.A. 9 <sup>h</sup> 56 <sup>m</sup> (continued)					R.A. 10 <sup>h</sup> 12 <sup>m</sup> (continued)				
..	4325	9.2	0.1714	2.9153	48,276	4454	9.1	5.2950	13.0499	49,066	4583	9.1	17.5984	0.9156
47,244	4326	9.1	0.4499	8.0872	48,289	4455	8.8	6.5362	14.0457	49,336	4587	8.1	19.5888	18.6008
47,390	4331	8.5	1.8827	14.5727	48,246	4457	8.7	6.9840	9.9870	49,067	4591	9.1	20.6410	1.0493
47,309	4332	9.0	2.0492	10.6701	48,383	4458	8.3	7.4788	23.1373	49,426	4592	7.3	21.5848	25.2792
47,333	4334	9.2	2.9234	11.4159	48,376	4459	8.3	8.5656	21.5214	49,204	4594	9.0	21.9291	11.1633
47,438	4335	9.0	4.1896	17.0548	48,301	4460	8.7	8.5507	15.3253	49,190	4595	8.5	22.2223	9.6910
47,370	4336	9.3	4.6053	13.5160	48,291	4464	8.9	10.3179	13.9977	49,342	4602	9.0	25.5049	18.4225
47,337	4337	9.3	4.8538	11.8194	48,268	4469	9.0	13.6408	11.9711	49,163	4603	9.0	25.5880	7.7552
47,219	4341	8.5	5.6045	6.5844	48,218	4474	8.5	15.8165	6.8133	49,135	4604	8.7	25.6431	5.5801
47,118	4343	8.3	6.6061	1.2784	48,295	4475	9.0	17.0357	13.9395	R.A. 10 <sup>h</sup> 20 <sup>m</sup>				
47,279	4344	8.2	6.9268	9.1281	48,206	4477	9.0	17.2033	5.2982	49,817	4602	9.0	3.1643	18.4054
47,223	4347	8.7	7.7530	7.3383	48,251	4478	9.1	17.3031	9.8200	49,582	4603	9.0	3.1140	7.7386
47,225	4350	8.9	8.4957	6.5970	48,156	4480	7.0	18.3602	0.2948	49,550	4604	8.7	3.1419	5.5633
47,553	4353	8.7	9.1355	23.3801	48,356	4481	8.0	18.9122	20.4221	49,924	4606	6.8	4.2934	25.3192
47,514	4354	8.8	9.5842	20.9260	48,196	4482	8.9	19.1484	5.1865	49,476	4607	7.1	5.2624	1.8733
47,395	4356	9.0	10.0109	14.5155	48,219	4483	7.8	20.0650	6.3741	49,639	4609	8.2	5.7067	10.2739
47,281	4357	8.3	10.5084	9.3694	48,236	4484	8.9	20.3206	9.2164	49,489	4611	8.9	5.7869	3.1010
47,474	4364	8.5	13.1075	18.9802	48,417	4490	7.6	23.1322	25.9265	49,641	4614	9.2	8.0157	10.7295
47,495	4365	8.9	13.2990	20.1632	48,305	4493	8.9	24.9371	14.8381	49,857	4620	9.0	10.3278	21.1944
47,599	4367	8.9	13.7526	24.8851	48,271	4495	8.2	25.9835	11.4785	49,932	4624	8.5	12.2854	24.6510
47,321	4369	9.0	14.0004	11.2263	R.A. 10 <sup>h</sup> 4 <sup>m</sup>					49,688	4626	8.6	12.8768	13.2580
47,169	4370	8.4	14.7344	3.5465	48,993	4490	7.6	0.8857	25.9395	49,496	4627	9.0	13.7204	2.2027
47,428	4375	8.5	16.5900	16.5364	48,767	4493	8.9	2.5518	14.8287	49,800	4631	8.3	15.2991	18.3426
47,109	4376	8.6	16.6819	0.7483	48,692	4495	8.2	3.5560	11.4564	49,576	4634	8.6	17.2873	6.8491
47,350	4377	9.2	16.9843	11.8834	48,590	4496	8.8	3.7521	8.1709	49,758	4636	8.8	18.1250	15.9368
47,110	4379	9.0	17.1634	0.8784	48,712	4498	8.8	3.7831	12.8287	49,464	4637	8.7	18.1824	0.3374
47,587	4380	9.0	17.5827	24.5322	48,737	4499	8.9	4.6522	14.3663	..	4638	8.4	20.4742	12.2023
47,564	4382	8.2	18.1013	23.3864	48,478	4500	8.4	5.0640	1.7185	49,468	4641	8.8	21.0028	0.3215
47,431	4385	8.6	20.0039	15.8753	48,580	4502	7.2	5.7792	6.5509	49,665	4642	8.2	20.9796	12.0825
47,484	4395	8.3	24.7052	19.6835	48,675	4503	8.6	6.8953	10.5923	49,469	4643	8.6	21.1388	1.0333
47,352	4396	8.7	24.9022	11.7960	48,969	4504	9.2	7.0022	23.8501	49,763	4647	8.1	21.7877	15.6991
47,365	4397	8.5	25.2750	12.7013	48,983	4509	9.1	8.2997	25.3308	49,745	4648	8.4	21.9070	15.3284
47,548	4399	8.9	25.3837	21.9963	48,645	4510	7.3	8.5366	10.2194	49,499	4649	9.0	23.3704	3.0757
R.A. 9 <sup>h</sup> 48 <sup>m</sup>					48,985	4512	7.4	9.8081	25.0182	49,703	4652	8.8	23.8436	13.3121
48,010	4395	8.3	2.3805	19.6766	48,520	4513	9.1	9.8855	4.0574	49,920	4653	8.9	23.8824	23.6865
47,848	4396	8.7	2.4789	11.7875	48,546	4514	9.0	10.8707	4.5328	49,888	4655	8.6	24.9050	21.9430
47,870	4397	8.5	2.8629	12.6880	48,483	4516	8.6	11.2974	1.4280	49,965	4657	8.4	25.1772	26.0193
48,046	4399	8.9	3.0878	21.9803	48,948	4517	8.6	11.7272	22.9922	R.A. 10 <sup>h</sup> 28 <sup>m</sup>				
47,873	4402	8.9	3.9027	13.2184	48,703	4520	9.1	12.4498	11.6538	50,032	4649	9.0	0.8380	3.0868
47,968	4403	9.1	4.0222	18.5051	48,988	4521	9.1	12.5061	24.7956	50,249	4652	8.8	1.4393	13.3167
47,949	4404	9.1	4.5086	16.7328	48,813	4523	8.8	13.2703	16.1933	50,437	4653	8.9	1.6080	23.6896
47,796	4406	8.6	5.5610	8.9712	48,785	4525	9.1	14.8869	15.0623	50,403	4655	8.6	2.6086	21.9331
47,775	4407	8.7	7.4404	8.3381	48,917	4526	8.5	15.6587	22.1566	50,469	4657	8.4	2.9318	26.0054
47,713	4408	8.2	7.5880	4.6338	48,786	4528	8.9	15.9759	15.2148	50,405	4660	7.9	4.3010	21.8421
47,880	4410	8.4	7.8520	12.9484	48,512	4534	9.0	19.3331	2.7800	50,352	4661	7.3	4.4553	19.4198
47,777	4412	7.7	8.4257	8.1936	48,554	4536	8.7	19.7571	4.7746	50,076	4662	8.7	4.4888	4.3620
47,978	4423	9.1	13.8748	18.6393	48,727	4541	8.8	20.7304	13.2167	50,054	4664	8.8	4.7881	3.9582
47,724	4424	9.1	14.6228	4.9496	48,588	4542	8.9	21.6115	7.0278	50,406	4665	9.1	5.5953	22.0625
47,784	4425	8.9	15.1550	7.7329	48,657	4545	8.4	22.0550	10.4979	50,019	4666	8.9	5.7366	2.0454
48,116	4429	8.8	16.3287	25.7050	48,927	4547	8.9	22.5181	22.5205	50,457	4669	9.1	6.9216	25.1075
48,118	4433	6.1	18.2654	25.1891	R.A. 10 <sup>h</sup> 12 <sup>m</sup>					50,176	4671	8.8	7.6173	9.4220
48,040	4434	9.0	18.5784	21.6102	49,382	4547	8.9	0.2290	22.5417	50,177	4673	8.5	8.1113	9.5913
48,082	4437	8.5	19.8377	23.3557	49,124	4558	9.2	5.1980	5.9776	50,474	4674	8.8	8.2478	25.6931
47,702	4441	8.3	21.6951	4.2621	49,371	4559	8.7	5.5390	20.9305	50,321	4676	8.7	10.1661	16.8133
47,965	4442	8.7	21.9404	17.4218	49,347	4560	8.6	5.7882	19.5831	50,236	4677	9.1	10.3311	12.8283
47,890	4443	9.0	22.0527	13.2496	49,278	4561	8.5	7.1438	15.7900	50,390	4679	8.3	10.4750	21.1759
47,747	4444	9.8	22.1736	5.6554	49,386	4564	8.8	8.1122	21.7030	50,257	4686	9.2	13.3438	14.1627
47,829	4448	8.1	23.9123	10.3908	49,361	4570	8.8	12.1729	20.1014	50,462	4687	7.1	13.3894	25.1522
47,733	4449	9.0	24.3071	5.4550	49,434	4573	8.6	12.6673	25.8908	50,302	4688	8.7	14.2715	16.3352
48,044	4451	9.2	25.7859	21.5709	49,421	4574	7.8	12.9147	24.8071	50,340	4689	9.0	14.3356	18.4539
R.A. 9 <sup>h</sup> 56 <sup>m</sup>					49,088	4575	6.5	13.0638	3.0443	50,478	4690	8.5	14.7908	25.8304
48,255	4448	8.1	1.4715	10.3947	49,061	4576	8.8	13.2237	0.9321	50,240	4692	9.1	15.5604	13.2628
48,199	4449	9.0	1.8045	5.4542	49,251	4578	7.8	15.6502	14.0906	50,259	4694	9.0	16.7874	14.1767
48,374	4451	9.2	3.4846	21.5497	49,062	4580	9.2	15.8137	0.5274	50,362	4696	9.1	18.2049	18.9102
48,241	4453	7.6	4.8647	9.4722	49,146	4582	7.7	16.1960	7.3096	50,394	4697	7.2	18.3384	21.2476



Reference No.					Reference No.					Reference No.				
Mag.		Standard co-ordinates, 1900 0			Mag.		Standard co-ordinates, 1900 0			Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Algiers.	ξ'	η'		Hyd.	Algiers.	ξ'	η'		Hyd.	Algiers.	ξ'	η'	
<b>R.A. 10<sup>h</sup> 28<sup>m</sup> (continued)</b>					<b>R.A. 10<sup>h</sup> 52<sup>m</sup> (continued)</b>					<b>R.A. 11<sup>h</sup> 8<sup>m</sup> (continued)</b>				
50,084	4698	9.0	18.6236	4.9445	51,711	4839	9.1	20.5733	18.1344	52,358	4955	8.6	23.7115	17.0447
50,264	4703	8.9	21.4535	14.3990	51,637	4840	8.6	21.0969	10.6290	52,200	4956	8.8	24.7317	5.1995
50,223	4704	8.9	21.7451	12.1949	51,747	4843	9.0	22.7789	21.1159	52,194	4958	8.2	25.7396	3.6822
50,287	4705	9.8	21.9614	14.7078	51,656	4847	9.0	24.7455	12.4757	<b>R.A. 11<sup>h</sup> 16<sup>m</sup></b>				
50,328	4706	9.0	22.0016	16.8201	<b>R.A. 11<sup>h</sup> 0<sup>m</sup></b>					52,742	4953	8.4	0.3055	18.5409
50,384	4707	8.9	23.6665	20.3720	52,030	4843	9.0	0.4723	21.1337	52,490	4954	9.1	0.5822	3.2967
50,108	4711	9.1	25.2777	6.1456	51,929	4847	9.0	2.3306	12.4690	52,709	4955	8.6	1.3540	17.0505
50,289	4712	8.7	25.3771	14.9464	51,976	4853	8.6	4.3662	16.6774	52,506	4956	8.8	2.2259	5.1936
<b>R.A. 10<sup>h</sup> 36<sup>m</sup></b>					51,931	4854	8.9	4.9168	12.5115	52,492	4958	8.2	3.2145	3.6642
50,871	4707	8.9	1.3505	20.3784	52,014	4855	8.4	5.0792	20.3815	52,762	4959	7.2	4.1791	20.2073
50,588	4711	9.1	2.7837	6.1330	51,979	4856	8.2	5.3140	17.1478	52,822	4960	8.2	4.5837	23.6405
50,770	4712	8.7	2.9932	14.9315	51,920	4858	7.5	6.1382	11.4953	52,474	4961	8.7	4.6690	2.2537
50,575	4716	8.6	4.9995	4.5535	51,825	4862	9.1	8.5753	2.3881	52,475	4962	8.9	5.2762	2.7823
50,811	4717	9.1	6.4238	17.3506	51,934	4863	8.7	9.3827	13.4052	52,763	4963	9.2	6.6350	20.1662
50,528	4719	8.7	7.1892	1.6864	51,835	4866	8.7	10.2234	3.5691	52,477	4965	8.7	7.7931	2.8994
50,531	4722	9.2	8.7780	1.7080	52,058	4868	8.7	10.9673	22.1350	52,641	4968	7.8	8.7489	11.6343
50,578	4723	8.6	9.2587	4.9717	51,855	4870	8.7	11.6747	5.8790	52,782	4969	8.4	9.4239	21.1361
50,977	4725	7.7	9.9641	25.1162	51,883	4872	8.1	11.9468	8.0390	52,711	4970	8.8	9.6536	17.2503
50,754	4730	8.8	12.1978	13.5772	52,073	4874	8.6	13.2720	23.1830	52,526	4971	8.2	9.6638	6.2055
50,537	4737	7.7	17.3210	1.9647	52,020	4875	8.7	15.1727	19.7125	52,764	4972	8.8	10.4496	19.9404
50,898	4738	9.1	18.0323	21.3540	52,021	4877	8.6	16.2806	19.6061	52,496	4974	8.9	11.0274	3.7176
50,981	4741	8.4	18.8221	24.8138	52,089	4878	8.6	16.5488	24.1244	52,771	4982	7.2	15.2462	19.6866
50,621	4742	9.0	19.5169	7.0101	51,949	4881	8.9	17.5477	14.2084	52,461	4983	8.4	15.2788	0.4977
50,623	4743	9.1	19.9556	6.6917	51,896	4882	7.6	17.5954	8.5234	52,751	4988	9.2	17.9343	19.4911
50,714	4748	9.0	23.0171	11.9319	51,828	4883	8.2	17.7488	2.8990	52,469	4990	7.4	18.5705	1.9314
50,989	4750	9.0	24.1276	25.2353	52,081	4885	8.7	18.3071	22.8609	52,615	4994	8.0	21.0815	9.5837
<b>R.A. 10<sup>h</sup> 44<sup>m</sup></b>					51,995	4888	9.0	20.3019	18.0123	52,503	4996	9.0	21.8121	3.9434
51,243	4748	9.0	0.5956	11.9468	51,836	4889	8.8	21.1090	4.3055	52,757	4999	7.8	22.5790	19.4878
51,483	4750	9.0	1.8724	25.2353	52,100	4891	8.9	22.0103	25.1402	52,487	5000	9.2	23.0946	2.5204
51,153	4752	8.2	4.6337	6.3741	51,938	4892	7.3	22.1285	12.7566	52,574	5004	9.0	23.8419	7.4832
51,498	4755	9.2	5.4190	25.9192	51,837	4893	8.8	22.9968	3.9656	52,617	5005	8.9	25.0963	9.5515
51,205	4761	8.9	8.3118	12.9488	52,026	4894	8.3	23.3112	20.4520	52,597	5007	8.6	25.6992	9.1882
51,347	4763	8.7	9.0211	16.8298	52,009	4897	8.9	23.7593	19.2316	<b>R.A. 11<sup>h</sup> 24<sup>m</sup></b>				
51,453	4764	8.4	9.3897	22.8455	52,011	4899	8.8	24.0362	19.4638	53,173	4999	7.8	0.2520	19.5081
51,201	4766	8.0	11.5130	8.7712	51,973	4901	9.1	24.2836	16.4554	52,921	5000	9.2	0.5553	2.5345
51,472	4768	9.2	11.7208	24.3522	51,984	4902	9.1	24.2846	17.2542	52,987	5004	9.0	1.3647	7.4880
51,457	4769	8.7	12.5856	23.6635	51,810	4903	8.3	24.7296	0.6991	53,021	5005	8.9	2.6449	9.5407
51,399	4775	8.8	14.8448	20.6346	51,974	4906	9.2	25.8901	16.5894	53,007	5007	8.6	3.2431	9.1700
51,239	4776	8.6	17.0940	11.2910	<b>R.A. 11<sup>h</sup> 8<sup>m</sup></b>					52,901	5009	6.6	4.6787	1.3966
51,275	4780	7.7	19.6882	12.9405	52,184	4893	8.8	0.4757	3.9808	53,161	5010	8.5	4.8531	18.4211
51,220	4782	6.1	20.7472	9.6512	52,384	4894	8.3	0.9963	20.4629	53,039	5013	8.4	5.3456	11.2190
51,383	4783	8.1	20.9302	19.5253	52,373	4897	8.9	1.4292	19.2368	53,043	5015	7.3	6.2268	10.6880
51,085	4791	7.0	24.8901	2.0953	52,387	4899	8.8	1.7089	19.4654	53,203	5019	8.4	7.7191	21.0327
51,386	4792	9.1	24.8920	18.9524	52,350	4901	9.1	1.9186	16.4541	52,934	5020	8.4	8.1689	3.8730
<b>R.A. 10<sup>h</sup> 52<sup>m</sup></b>					52,351	4902	9.1	1.9297	17.2528	52,973	5021	9.1	8.4100	7.1708
51,559	4791	7.0	2.3454	2.0880	52,151	4903	8.3	2.1674	0.6936	52,910	5022	9.0	8.5154	1.5185
51,716	4792	9.1	2.5581	18.9430	52,352	4906	9.2	3.5265	16.5677	52,994	5023	9.0	9.4221	8.3371
51,614	4799	8.8	4.4309	7.7703	52,374	4909	9.0	5.0758	18.9829	53,236	5031	7.9	12.5215	23.1318
51,641	4803	9.0	6.4356	11.5609	52,353	4915	9.5	6.4382	16.8423	53,029	5034	8.0	15.0502	10.4819
51,571	4806	7.0	8.2448	2.5875	52,355	4916	9.4	6.6263	16.8156	52,914	5038	9.3	17.7510	2.4092
51,661	4809	8.8	9.6812	12.7951	52,376	4917	9.1	9.1733	19.3411	53,051	5040	9.2	17.8468	11.6093
51,618	4811	8.3	10.7828	8.1300	52,274	4923	7.9	10.5052	10.4907	53,092	5041	8.8	17.9106	13.0440
51,619	4813	8.5	10.9365	7.9194	52,249	4924	8.2	10.9332	9.1181	53,000	5046	8.6	19.3370	7.9276
51,634	4818	8.3	12.2832	9.8985	52,259	4925	8.6	11.0361	9.9134	52,967	5047	8.3	19.9583	6.1243
51,575	4819	8.9	12.5845	2.5689	52,329	4926	5.9	12.0099	15.4682	52,940	5048	6.6	20.8817	3.7234
51,722	4820	7.8	12.9912	18.9962	52,159	4930	8.4	13.5799	1.0189	...	5058	9.0	25.5676	0.4671
51,662	4823	8.5	13.2973	13.4390	52,378	4931	8.0	14.1306	18.9183	52,907	5059	8.5	25.9778	0.9700
51,671	4824	9.0	13.8698	14.4692	52,166	4937	8.4	17.9531	2.3393	<b>R.A. 11<sup>h</sup> 32<sup>m</sup></b>				
51,723	4827	7.8	15.9177	18.8379	52,418	4941	9.0	18.9963	22.2517	53,303	5058	9.0	3.0024	0.4517
51,598	4830	9.0	18.4530	5.6809	52,420	4947	9.0	21.0279	22.0036	53,304	5059	8.5	3.4188	0.9498
51,710	4833	9.1	18.9504	18.0202	52,404	4949	9.4	21.7578	20.8384	53,699	5060	8.3	3.8778	23.8281
51,622	4834	9.0	19.0089	8.6319	52,369	4951	8.5	22.1387	18.5167	53,547	5061	8.9	3.8741	16.1860
51,608	4838	8.3	20.1309	7.1387	52,179	4952	7.6	22.3087	2.7534	53,320	5067	7.9	7.8423	1.0622
					52,371	4953	8.4	22.6447	18.5214					
					52,181	4954	9.1	23.1119	3.2828					



Reference No.		Mag.	Standard co-ordinates, 1900 0		Reference No.		Mag.	Standard co-ordinates, 1900-0		Reference No.		Mag.	Standard co-ordinates, 1900 0	
Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.
<b>R.A. 11<sup>h</sup> 32<sup>m</sup> (continued)</b>					<b>R.A. 11<sup>h</sup> 48<sup>m</sup> (continued)</b>					<b>R.A. 12<sup>h</sup> 4<sup>m</sup> (continued)</b>				
53.306	5069	9 1	8.6233	0.5077	54.341	5190	9.2	19.6904	22.9056	54.663	5305	8.5	25.2701	5.4037
53.533	5071	8.8	8.7940	14.3096	54.203	5192	9.2	20.0875	13.6084	54.687	5306	8.1	25.4327	7.2599
53.705	5072	8.7	10.4926	24.1051	54.342	5193	9.3	20.1474	23.4510	54.757	5307	8.2	25.4739	13.9853
53.335	5073	9.2	10.8361	2.2281	54.213	5194	7.5	20.7364	14.2015	<b>R.A. 12<sup>h</sup> 12<sup>m</sup></b>				
53.307	5075	9.2	12.0191	0.6759	54.301	5196	7.3	20.8963	20.5490	54.927	5304	8.4	1.6914	3.2025
53.385	5078	7.6	12.7184	5.9455	54.119	5198	9.0	21.6707	6.2211	54.964	5305	8.5	2.7668	5.3913
53.486	5080	8.9	13.9444	11.9192	54.278	5199	8.7	22.4612	19.0577	54.978	5306	8.1	2.9525	7.2454
53.602	5082	9.3	15.9070	18.2822	54.183	5200	9.2	22.9034	11.3602	55.074	5307	8.2	3.0778	13.9693
53.338	5083	8.9	16.1325	2.9102	54.358	5202		24.6920	24.8055	55.059	5310	9.1	3.8908	13.1695
53.563	5086	9.4	17.1561	15.7015	<b>R.A. 11<sup>h</sup> 56<sup>m</sup></b>					55.194	5314	9.0	6.3802	23.0465
53.577	5087	9.3	17.4461	16.8133	..	5199	8.7	0.1288	19.0796	55.062	5315	8.9	6.7342	12.6299
53.312	5088	8.9	17.6648	0.3336	..	5200	9.2	0.4748	11.3765	54.954	5317	4.8	6.8811	4.4693
53.441	5089	8.2	18.2644	8.4432	54.577	5202		2.4314	24.7982	54.903	5320	7.3	8.6149	0.6947
53.732	5090	9.0	19.8651	25.5249	54.478	5206	8.6	4.1051	10.2568	55.144	5323	7.8	9.2182	19.0129
53.362	5093	9.1	21.0271	3.3163	54.583	5208	9.2	5.4172	25.6246	55.134	5324	9.0	9.2752	17.8027
53.541	5095	9.0	21.4112	14.7611	54.500	5209	9.4	5.5354	14.8360	55.101	5325	9.1	9.5549	16.0854
53.341	5096	9.3	21.5434	3.1218	54.506	5210	9.5	6.7014	15.6592	55.213	5326	9.0	9.6079	24.3429
53.642	5097	8.9	22.0346	19.5977	54.513	5215	8.7	11.2617	16.8747	54.956	5327	9.2	10.4748	5.1232
53.314	5098	9.5	22.2386	0.5702	54.514	5216	6.3	11.8506	16.3674	54.969	5328	9.0	12.0644	6.3897
53.677	5101	8.8	22.7516	22.3765	54.412	5218	8.2	12.4303	1.9129	54.957	5329	9.0	12.7838	4.4893
53.445	5104	9.0	23.9220	8.8773	54.473	5219	7.8	12.5510	9.3111	54.984	5331	9.0	13.6665	6.9726
53.659	5106	9.5	25.3843	21.4307	54.423	5223	7.9	13.7692	2.2704	55.136	5332	8.6	14.3589	17.7813
53.380	5107	9.2	25.5745	4.6558	54.495	5224	8.3	13.7708	12.6892	54.959	5333	8.1	14.9002	4.6992
<b>R.A. 11<sup>h</sup> 40<sup>m</sup></b>					54.569	5227	9.2	14.2788	23.7196	54.960	5335	7.8	15.9961	4.4307
53.997	5101	8.8	0.4607	22.3945	54.584	5229	9.1	14.5284	25.3110	54.943	5338	7.8	16.5626	4.0509
53.874	5104	9.0	1.4622	8.8811	54.441	5231	8.1	15.6079	4.0213	55.186	5339	8.8	16.6712	22.5993
53.899	5106	9.5	3.0814	21.4148	54.571	5232	9.2	16.3480	23.8442	55.067	5341	8.6	17.8539	12.5996
53.835	5107	9.2	3.0618	4.6399	54.561	5234	9.5	17.5051	22.7716	55.161	5350	8.6	20.5889	20.5867
53.948	5113	9.2	5.3871	16.5932	54.486	5235	9.0	17.5379	11.0770	55.052	5352	8.7	20.7140	12.2643
54.022	5114	8.9	5.9153	24.7519	54.547	5237	8.0	18.2389	20.1574	55.088	5353	9.3	20.8174	14.1338
53.938	5115	9.3	7.3406	15.8191	54.525	5239	9.3	18.6985	17.3274	55.162	5355	6.5	21.3714	20.4568
53.827	5116	8.5	8.1277	3.8962	54.406	5241	8.9	21.1955	0.9785	55.178	5356	6.2	22.4312	20.9457
53.884	5117	9.1	8.2751	10.3718	54.564	5243	8.8	21.5778	22.7877	55.189	5358	8.9	23.0971	22.2976
53.857	5119	7.9	9.4738	6.8092	54.455	5244	8.1	21.8750	6.8061	55.206	5362	8.9	24.9449	23.6147
54.023	5120	8.7	10.2493	24.8606	54.415	5246	8.8	22.6066	1.8225	55.153	5364	9.2	25.7982	19.1310
53.819	5123	7.5	11.1521	2.6885	54.484	5247	8.5	22.9482	10.5376	<b>R.A. 12<sup>h</sup> 20<sup>m</sup></b>				
53.920	5127	9.1	13.9636	13.6612	54.519	5250	8.9	23.7120	16.4856	55.400	5356	6.2	0.1224	20.9679
53.982	5128	9.1	14.0110	20.4559	54.408	5251	9.5	24.6510	0.3392	55.408	5358	8.9	0.8052	22.3111
53.991	5130	8.5	14.0678	21.1557	54.574	5252	9.0	25.1007	23.5732	55.418	5362	8.9	2.6694	23.6040
53.904	5131	7.9	14.1513	12.0124	<b>R.A. 12<sup>h</sup> 4<sup>m</sup></b>					55.384	5364	9.2	3.4665	19.1103
53.907	5136	8.0	17.9545	12.0385	54.718	5246	8.8	0.0585	1.8424	55.352	5365	9.4	3.7083	14.3369
54.013	5138	8.8	18.8745	23.6799	54.769	5247	8.5	0.5092	10.5533	55.430	5366	9.3	5.4618	23.7725
53.898	5145	9.4	21.3749	10.6616	..	5251	9.5	2.0844	0.3347	55.328	5367	9.4	5.8894	9.5442
53.916	5148	9.3	23.1207	13.1973	54.842	5252	9.0	2.8247	23.5607	55.303	5370	9.4	6.7232	6.6742
54.019	5151	9.3	24.3971	24.2020	54.634	5253	9.1	4.3196	3.6306	55.269	5372	9.1	8.2514	2.9773
53.978	5153	8.6	24.9213	19.5663	54.747	5254	8.8	4.4868	14.4036	55.330	5378	8.9	10.0159	10.2615
<b>R.A. 11<sup>h</sup> 48<sup>m</sup></b>					54.629	5259	8.3	5.8515	3.1770	55.386	5379	8.6	10.1489	19.1752
54.198	5148	9.3	0.7150	13.2109	54.603	5263	9.2	7.4531	1.2093	55.278	5383	9.0	11.7755	3.9232
54.348	5151	9.3	2.1290	24.1985	54.832	5264	8.4	7.5905	22.7736	55.353	5386	8.7	12.4440	14.3094
54.265	5153	8.6	2.5952	19.5565	54.739	5265	9.2	8.1963	13.5677	55.298	5387	9.0	12.4836	5.9552
54.145	5156	8.8	4.8709	8.5751	54.800	5270	9.5	10.3607	19.3058	55.306	5388	8.8	13.1583	6.7675
54.351	5159	9.2	5.3479	24.4805	54.878	5271	9.0	10.3793	25.2490	55.423	5392	8.0	18.1213	23.0540
54.286	5163	8.5	6.7081	20.0620	54.834	5272	8.9	10.7297	21.9516	55.358	5394	9.3	18.4603	14.9638
54.110	5164	8.4	6.6973	6.3783	54.864	5277	8.7	11.9468	24.5777	55.323	5397	7.6	19.4621	9.0914
54.333	5167	8.7	7.2123	23.1225	54.821	5280	9.5	13.5958	20.9705	55.424	5398	8.7	20.1082	23.1541
54.210	5169	7.5	8.7162	13.9618	54.683	5281	8.4	14.0833	6.9532	55.377	5404	8.9	22.8084	17.0086
54.103	5173	9.3	9.3598	5.0705	54.850	5285	9.3	15.6099	23.7666	55.341	5405	8.9	24.8879	11.2100
54.088	5175	9.3	10.8428	4.3415	54.881	5286	3.1	15.7256	25.7666	55.392	5406	9.0	25.3343	18.9863
54.291	5177	9.0	11.7272	20.4625	54.763	5287	8.9	15.8894	14.7523	55.437	5407	9.0	25.5098	24.1500
54.256	5178	8.9	11.7613	18.5952	54.656	5290	8.6	18.1909	5.1983	<b>R.A. 12<sup>h</sup> 28<sup>m</sup></b>				
54.054	5183	8.6	15.1187	0.3776	54.815	5294	8.3	19.8464	19.8710	55.665	5404	8.9	0.4504	17.0260
54.239	5185	8.9	16.7670	16.7574	54.868	5297	9.1	21.6007	24.5807	55.604	5405	8.9	2.4572	11.2018
54.240	5186	8.4	17.0518	17.0927	54.633	5304	8.4	24.2222	3.2019	55.685	5406	9.0	3.0009	18.9715
..	5188	9.2	18.1433	0.3567						55.739	5407	9.0	3.2409	24.1321
54.325	5189	8.9	18.6731	21.7866										



Reference No.		Mag.	Standard co-ordinates 1900 0		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900 0	
Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ	η	Hyd.	Algiers		ξ.	η
R.A. 12 <sup>h</sup> 28 <sup>m</sup> (continued)					R.A. 12 <sup>h</sup> 44 <sup>m</sup> (continued)					R.A. 13 <sup>h</sup> 16 <sup>m</sup> (continued)				
55,666	5408	8.6	4.1079	16.9182	56,153	5548	8.7	17.8061	9.3583	57,266	5693	9.3	8.4572	2.1232
55,501	5413	8.9	5.9077	0.5180	56,110	5554	8.6	22.2962	5.6097	57,267	5694	8.9	8.7798	1.4770
55,633	5414	8.7	6.1724	14.0841	56,165	5558	8.6	24.8046	10.0923	57,420	5696	8.2	10.4798	20.3228
55,555	5419	7.3	9.2364	6.1739	R.A. 12 <sup>h</sup> 52 <sup>m</sup>					57,301	5697	8.1	10.4647	5.2485
55,695	5420	8.0	10.7138	20.4271	56,436	5558	8.6	2.3599	10.0852	57,451	5699	7.5	11.9558	23.2990
..	5421	9.1	10.7284	0.2125	56,429	5562	8.8	4.9004	9.1859	57,383	5700	8.4	12.1185	16.3815
55,581	5424	6.8	11.1225	8.9042	56,512	5566	8.4	7.6467	15.4921	57,371	5704	9.2	14.6781	14.5251
55,568	5428	8.5	13.0866	7.4022	56,578	5575	7.4	12.5649	20.5647	57,303	5705	9.0	15.5393	5.0641
55,503	5431	8.6	14.0459	0.4536	56,392	5579	8.7	14.3181	4.9301	57,357	5710	8.4	16.9697	11.7061
55,733	5433	9.0	14.6034	23.4218	56,483	5585	7.2	17.5497	13.0770	57,277	5712	9.3	20.0353	2.4865
55,652	5437	8.6	15.7430	15.0788	56,471	5586	8.9	18.4888	12.1874	57,316	5713	6.6	20.1534	5.8349
55,537	5442	9.1	17.8010	4.4248	56,566	5587	8.3	18.8571	20.0658	57,293	5714	9.3	20.2494	3.6494
55,585	5443	8.6	17.8253	8.9911	56,556	5589	9.1	19.9136	19.3295	57,462	5715	8.6	20.7462	24.3823
55,639	5445	9.3	18.8394	14.5209	56,460	5590	8.9	19.9729	11.1471	57,327	5723	9.1	25.6881	7.7745
55,508	5448	6.1	20.7087	0.7135	56,522	5595	8.7	21.8551	16.0102	R.A. 13 <sup>h</sup> 24 <sup>m</sup>				
55,602	5451	8.1	22.6149	10.0964	56,472	5598	8.0	23.1807	11.6785	57,586	5723	9.1	3.2143	7.7568
55,724	5452	8.9	22.7255	22.6334	56,381	5599	7.1	23.9692	3.8938	57,750	5728	7.9	5.4466	22.3719
55,628	5454	9.2	23.3534	13.4756	56,623	5600	9.1	24.6024	23.8139	57,765	5730	7.5	6.5761	23.1615
55,663	5455	9.1	23.3465	16.4504	R.A. 13 <sup>h</sup> 0 <sup>m</sup>					57,766	5733	7.5	9.5926	23.5732
55,700	5459	9.1	25.9029	20.7381	56,769	5598	8.0	0.7559	11.6913	57,678	5734	8.7	9.7609	15.5726
R.A. 12 <sup>h</sup> 36 <sup>m</sup>					56,684	5599	7.1	1.4471	3.8973	57,781	5736	8.5	10.4965	23.9061
55,863	5451	8.1	0.1703	10.1164	56,900	5600	9.1	2.3295	23.8079	57,546	5739	9.2	13.4624	4.8114
55,973	5452	8.9	0.4379	22.6518	56,662	5603	9.0	3.7584	2.3600	57,770	5740	8.5	13.6447	23.2071
55,889	5454	9.2	0.9512	13.4863	56,887	5605	9.0	4.0494	23.4522	57,638	5749	9.1	17.9952	11.8176
55,907	5455	9.1	0.9815	16.4610	56,653	5608	8.5	6.3520	0.4180	57,567	5752	9.1	20.3514	6.2468
55,958	5459	9.1	3.5913	20.7155	56,745	5612	8.9	6.9782	9.0849	57,641	5755	9.4	21.2906	12.2024
55,871	5460	9.0	4.5531	11.1494	56,667	5615	6.1	8.5225	1.5599	57,744	5757	8.5	22.2979	21.0180
55,885	5463	9.2	5.3708	12.6496	56,791	5618	7.5	11.6709	12.8028	57,517	5760	8.8	24.3810	2.2887
55,864	5464	9.4	5.7658	10.2050	56,917	5619	9.0	11.7493	25.4431	R.A. 13 <sup>h</sup> 32 <sup>m</sup>				
55,801	5465	9.0	6.2675	0.6970	56,848	5621	7.7	13.6498	19.4156	57,867	5760	8.8	1.8388	2.2873
56,007	5466	8.7	6.7544	25.8183	56,750	5627	8.6	16.7563	8.7825	57,913	5762	9.1	3.8565	8.4425
55,837	5471	8.6	9.1429	6.0498	56,731	5631	8.8	19.7575	6.6769	57,851	5764	8.8	4.4246	0.3467
55,858	5473	9.3	9.3920	9.2072	56,671	5639	7.8	24.2978	1.7732	57,966	5765	9.3	5.6784	15.7004
55,866	5476	9.4	10.5576	9.8119	56,865	5642	7.8	25.0129	20.8307	..	5766	9.2	6.5357	0.1115
55,897	5478	9.1	11.0021	15.0911	R.A. 13 <sup>h</sup> 8 <sup>m</sup>					58,044	5768	9.3	7.4083	24.7726
55,881	5480	9.0	11.9339	12.2826	56,965	5639	7.8	1.7491	1.7729	57,989	5769	7.7	7.6190	19.1464
55,977	5483	9.0	13.3494	23.6658	57,152	5642	7.8	2.7025	20.8197	58,031	5770	8.5	8.3714	23.6747
55,809	5484	8.3	13.7323	1.8140	57,172	5648	8.2	4.7295	23.0756	57,959	5773	8.6	11.2998	15.3088
55,899	5485	8.9	14.0754	14.6184	57,155	5650	9.1	5.8156	21.0680	57,974	5774	8.3	11.8483	17.1271
55,838	5486	8.7	14.3434	5.4972	57,059	5652	8.7	6.6111	11.1083	57,954	5775	8.7	12.5102	14.0821
55,910	5488	8.7	14.8124	15.9399	56,981	5655	8.6	8.3790	2.7557	57,983	5776	9.0	12.6681	17.9458
55,927	5491	8.7	15.5564	18.0169	57,007	5656	7.8	9.6114	5.2384	58,007	5778	8.9	13.4121	21.5447
55,860	5495	9.3	17.8359	8.7161	57,175	5666	8.1	14.7421	22.9789	57,881	5783	8.9	15.0576	4.0237
55,873	5498	9.2	19.2268	10.8354	57,065	5668	8.8	17.1875	11.0602	57,957	5788	8.9	16.7763	13.9423
55,887	5505	9.4	21.6693	12.9959	57,010	5669	9.2	17.4454	5.2267	57,968	5795	9.4	21.2085	15.6330
55,894	5506	9.0	21.9804	14.4569	57,082	5671	8.9	18.2194	13.4343	57,883	5796	9.1	22.9416	3.9343
55,888	5511	9.1	24.7004	13.2202	57,014	5674	8.9	20.1441	5.8106	R.A. 13 <sup>h</sup> 40 <sup>m</sup>				
55,914	5513	7.0	25.8350	15.6982	57,123	5676	8.0	20.5743	17.6691	58,137	5796	9.1	0.4201	3.9502
R.A. 12 <sup>h</sup> 44 <sup>m</sup>					56,976	5677	8.9	20.8063	1.8473	58,302	5801	8.6	4.2073	19.5081
56,184	5511	9.1	2.2949	13.2140	57,107	5679	7.9	22.4589	16.1545	58,383	5806	8.9	6.5495	25.9571
56,208	5513	7.0	3.4602	15.6774	57,131	5680	9.0	23.0834	19.0470	58,341	5807	8.6	6.9978	23.3736
56,239	5517	8.9	4.7934	18.9847	57,027	5681	9.0	24.1039	7.0047	58,193	5808	9.0	8.1372	9.5145
56,088	5518	9.0	5.0637	4.6372	57,086	5682	7.9	24.2068	13.1570	58,147	5809	9.0	9.0518	5.1351
56,248	5522	7.4	6.7354	20.0152	57,075	5685	9.1	25.2046	12.2105	58,203	5810	8.9	10.0850	9.6440
56,174	5525	8.2	7.8461	12.0261	R.A. 13 <sup>h</sup> 16 <sup>m</sup>					58,151	5815	8.3	16.6211	5.2712
56,229	5530	9.2	10.8336	18.3861	..	5679	7.9	0.0902	16.1765	58,295	5816	8.8	16.8529	18.2093
56,292	5532	9.1	11.2147	24.3103	57,404	5680	9.0	0.7509	19.0608	58,129	5818	8.9	17.2045	2.9964
56,241	5535	9.5	11.9802	18.9638	57,318	5681	9.0	1.6207	7.0064	58,230	5820	8.9	17.6783	12.6148
56,064	5538	8.7	12.6942	1.7547	57,361	5682	7.9	1.8006	13.1570	58,155	5822	8.8	17.9993	5.3075
56,211	5540	8.8	12.9226	15.9737	57,353	5685	9.1	2.7863	12.1980	58,307	5826	9.5	18.8911	19.3382
56,278	5541	8.8	13.2947	23.1364	57,264	5687	8.9	3.8388	2.2068	58,281	5827	9.0	18.9740	17.2495
56,233	5543	9.1	14.4613	17.8000	57,253	5688	9.1	4.8357	1.0961	58,313	5830	9.0	19.3803	20.6941
56,149	5544	8.4	14.4966	9.5259	57,329	5692	8.9	7.9078	9.4314	58,109	5832	8.8	20.9324	1.2514
56,279	5545	8.8	14.6324	23.1178						58,327	5833	8.9	21.3814	20.9113



Reference No		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o		Reference No.		Mag.	Standard co-ordinates, 1900 o.	
Hyd.	Algiers.		ξ.	η'	Hyd.	Algiers.		ξ	η'	Hyd	Algiers.		ξ	η'.
R.A. 13 <sup>h</sup> 40 <sup>m</sup> (continued)														
58,143	5835	7.1	22.7548	4.0307	59,205	5942	9.1	10.4403	13.8135	60,374	6089	9.1	24.3764	20.3265
58,160	5837	9.1	23.0359	5.4537	59,317	5946	8.3	11.9660	25.7848	60,115	6090	8.8	24.7972	0.9313
58,161	5838	9.1	23.3520	5.0295	59,165	5948	8.9	13.1613	9.6720	60,286	6092	8.7	25.5301	11.6159
58,318	5841	7.8	25.4225	20.2309	59,166	5949	8.3	14.3675	10.1735	R.A. 14 <sup>h</sup> 28 <sup>m</sup> (continued)				
R.A. 13 <sup>h</sup> 48 <sup>m</sup>					59,259	5954	9.2	17.7088	20.5226	R.A. 14 <sup>h</sup> 36 <sup>m</sup>				
58,474	5835	7.1	0.2344	4.0489	59,309	5956	9.1	18.7810	24.6052	60,771	6087	8.2	0.0877	21.4987
58,474	5837	9.1	0.5334	5.4684	59,324	5960	8.5	24.4302	25.0546	60,747	6089	9.1	2.0598	20.3238
58,462	5838	9.1	0.8442	5.0405	R.A. 14 <sup>h</sup> 12 <sup>m</sup>					60,501	6090	8.8	2.2378	0.9250
58,646	5841	7.8	3.1045	20.2146	59,608	5960	8.5	2.1727	25.0507	60,657	6092	8.7	3.1044	11.5995
58,518	5843	9.0	3.7573	10.2744	59,361	5964	9.2	4.6470	1.2646	60,810	6096	8.0	5.2645	23.7663
58,476	5844	7.0	3.8443	5.4953	59,431	5966	7.4	5.3743	8.1909	..	6099	8.4	6.4153	0.1096
58,508	5845	9.1	4.1798	8.4069	59,552	5972	9.1	11.2870	20.4438	60,709	6102	8.8	7.9220	15.9066
58,419	5848	8.9	5.1428	1.9053	59,468	5973	8.8	11.5713	11.3978	60,579	6107	9.3	9.5018	6.0178
58,547	5850	8.9	5.7395	11.9240	59,513	5975	8.0	11.8994	16.8794	60,829	6108	9.3	9.8089	24.6567
58,491	5851	8.2	5.8353	6.8791	59,352	5976	8.7	12.2806	1.0827	60,509	6113	9.4	12.8177	1.0761
58,648	5852	9.1	6.8499	20.0458	59,469	5977	9.0	12.6169	11.3720	60,640	6118	8.6	15.5541	10.2058
58,594	5854	9.0	9.7642	16.3642	59,399	5980	8.6	13.1369	4.5409	60,567	6120	9.0	16.4247	5.2288
58,525	5861	8.6	13.8843	9.7069	59,514	5981	7.6	13.2598	17.3851	60,598	6124	9.2	18.3510	7.0123
58,679	5864	8.9	14.5481	21.8725	59,415	5990	8.0	19.2399	5.9780	60,744	6126	8.6	19.8260	19.5078
58,621	5865	8.9	14.7096	18.1126	59,434	5991	9.1	20.5116	7.3753	60,800	6129	9.0	21.0775	22.8484
58,636	5866	8.8	15.5146	18.9617	59,533	5993	9.1	22.5344	18.4277	60,533	6131	9.0	21.6375	1.7191
58,681	5867	6.7	15.7272	22.0084	59,496	6000	8.8	24.5362	14.7311	60,733	6132	8.8	21.9549	18.0450
58,562	5868	8.3	16.7550	13.1936	59,396	6001	9.1	24.9170	3.8389	60,822	6135	7.5	24.2076	24.8940
58,526	5870	9.1	17.3400	9.8344	R.A. 14 <sup>h</sup> 20 <sup>m</sup>					60,643	6139	6.8	25.6485	10.0648
58,573	5874	8.8	18.2765	13.8725	59,949	5993	9.1	0.1941	18.4487	R.A. 14 <sup>h</sup> 44 <sup>m</sup>				
58,684	5876	9.0	18.3918	22.4861	59,877	6000	8.8	2.1496	14.7268	61,086	6135	7.5	1.9482	24.8931
58,696	5879	9.0	19.5638	23.6207	59,693	6001	9.1	2.3942	3.8310	60,943	6139	6.8	3.2034	10.0471
58,723	5882	8.8	21.4615	25.3693	59,672	6004	9.0	4.2031	1.3017	60,944	6141	9.0	3.6772	9.6911
58,458	5883	9.1	22.1843	4.3986	59,714	6005	6.9	4.5070	4.6403	61,088	6142	7.5	3.9862	24.8083
58,469	5884	9.1	22.2847	5.3912	59,901	6009	9.1	7.5205	15.8488	61,049	6144	8.7	4.8025	21.9960
58,588	5887	9.1	23.5608	14.9544	59,768	6010	9.0	7.9222	7.5683	61,089	6145	8.3	5.0758	25.6577
58,698	5888	9.1	23.8187	22.9447	59,902	6013	7.8	8.3218	16.0519	60,962	6149	6.6	6.1089	11.8782
58,577	5890	8.7	25.2004	14.3261	60,043	6018	9.3	10.8694	25.7638	60,909	6151	9.3	8.2491	6.3386
58,443	5891	8.6	25.5316	2.9312	59,737	6021	8.1	11.2123	6.0536	60,876	6152	9.2	9.1754	2.1506
R.A. 13 <sup>h</sup> 56 <sup>m</sup>					59,673	6022	8.7	11.3085	2.2566	61,092	6153	9.1	11.3430	25.6869
58,914	5887	9.1	1.1771	14.9624	59,844	6025	7.7	13.4080	12.7457	60,885	6157	9.0	13.6212	2.5276
59,000	5888	9.1	1.5350	22.9490	59,980	6027	7.7	13.8262	21.1039	61,066	6158	9.0	13.6885	22.8368
58,902	5890	8.7	2.8087	14.3134	59,771	6030	8.5	15.5889	7.7971	60,980	6160	9.0	14.4637	14.2963
58,768	5891	8.6	2.9973	2.9160	59,945	6032	8.0	16.4953	18.0198	60,890	6161	9.1	14.6738	4.0400
58,936	5894	9.2	4.1729	16.7799	59,991	6033	8.9	16.7777	22.5140	60,900	6163	9.0	15.3750	5.2339
59,002	5901	8.6	8.3459	23.3120	59,957	6035	7.5	18.3398	19.5217	61,077	6166	8.3	15.4428	24.1764
..	5903	8.6	9.1759	0.1891	59,957	6035	7.5	18.3398	19.5217	60,891	6170	9.3	16.4631	4.0580
58,952	5908	9.0	13.9916	17.7524	59,721	6036	8.9	18.6472	5.3357	61,044	6175	8.8	18.6403	20.8529
58,846	5909	9.1	14.3415	8.7624	59,759	6037	8.9	18.9168	6.5953	60,887	6176	7.7	18.8366	3.4348
58,816	5910	9.2	15.7219	5.9124	59,678	6040	8.0	20.5803	2.4024	60,913	6177	8.9	19.9805	5.8340
58,918	5912	8.0	16.1154	15.1524	59,958	6044	8.5	21.1174	19.5694	60,994	6178	9.1	20.3978	16.6579
58,817	5913	9.2	16.1850	5.8485	60,016	6045	8.2	21.1889	22.8585	60,997	6180	9.1	22.7029	16.5420
58,928	5914	9.0	16.5940	15.7234	59,763	6050	8.8	24.7597	7.2294	60,989	6182	8.6	23.0431	15.3722
58,804	5916	9.1	18.7251	4.7098	R.A. 14 <sup>h</sup> 28 <sup>m</sup>					60,998	6187	8.4	24.2105	16.6766
59,019	5918	7.3	19.4175	24.3028	60,197	6050	8.8	2.2792	7.2231	R.A. 14 <sup>h</sup> 52 <sup>m</sup>				
58,876	5919	8.7	20.1683	11.0179	60,307	6053	8.3	3.9405	13.6629	61,327	6180	9.1	0.3390	16.5607
58,931	5920	8.3	20.4186	16.3746	60,443	6055	7.0	4.6726	25.2113	61,322	6182	8.6	0.6646	15.3865
58,932	5921	8.7	21.0948	16.4508	60,263	6056	9.4	5.1994	10.7059	61,329	6187	8.4	1.8482	16.6762
58,911	5923	9.0	22.8856	14.2537	60,156	6058	7.0	5.2236	4.2926	61,290	6191	9.0	5.5673	12.3947
58,765	5924	9.0	23.2368	1.7088	60,282	6059	9.3	5.6271	11.9555	61,154	6194	8.2	8.7698	0.8141
58,953	5926	9.2	23.7386	18.1220	60,359	6062	9.1	7.4864	18.5226	61,365	6195	8.0	9.3002	19.9729
R.A. 14 <sup>h</sup> 4 <sup>m</sup>					60,199	6064	7.9	8.5086	7.0620	61,187	6197	8.8	9.9897	2.7104
59,204	5923	9.0	0.4931	14.2701	60,242	6066	8.8	10.0438	10.1641	61,177	6200	8.0	10.5371	2.0136
59,059	5924	9.0	0.6874	1.7212	60,426	6069	9.3	12.1546	23.6567	61,292	6201	8.2	11.8612	12.4881
59,236	5926	9.2	1.3945	18.1275	60,217	6071	8.8	13.3730	8.1216	61,293	6202	6.3	11.9158	12.5114
59,062	5931	9.0	5.1354	1.2938	60,410	6073	9.2	13.7124	23.3923	61,389	6203	8.1	12.1394	21.9740
59,215	5936	9.0	7.5873	15.1573	60,428	6076	7.2	15.1298	24.4161	61,419	6206	7.8	15.6081	24.9959
59,163	5938	8.0	8.3274	9.6347	60,110	6078	6.8	16.4295	1.0098	61,227	6207	9.1	16.2080	6.5986
59,266	5939	8.6	8.6368	21.5710	60,399	6082	7.4	19.8387	21.9014	61,279	6213	8.8	18.7622	10.3749
					60,388	6087	8.2	22.3899	21.4759	61,370	6216	8.4	19.0208	20.1976



Reference No		Mag.	Standard co-ordinates, 1900 0.		Reference No.		Mag.	Standard co-ordinates, 1900 0		Reference No		Mag	Standard co-ordinates, 1900 0	
Hyd	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'	η'	Hyd	Algiers		ξ'.	η'.
R.A. 14 <sup>h</sup> 52 <sup>m</sup> (continued)					R.A. 15 <sup>h</sup> 16 <sup>m</sup> (continued)					R.A. 15 <sup>h</sup> 32 <sup>m</sup> (continued)				
61,397	6222	9.0	23.3239	23.0798	62,133	6335	8.3	4.4658	9.8800	62,697	6463	8.5	15.0688	16.2572
61,268	6223	9.0	23.6253	9.5747	62,060	6336	9.2	4.5492	3.0411	62,662	6470	8.7	16.3509	12.3545
61,287	6226	9.0	24.2299	11.1126	62,105	6342	8.4	7.5339	7.0670	62,550	6471	8.6	16.3993	4.0583
61,183	6227	8.8	25.2127	1.7773	62,268	6344	9.0	8.7959	25.9615	62,616	6476	8.3	18.2151	9.3053
61,360	6229	8.9	25.7071	19.1787	62,253	6345	8.8	9.1647	23.7660	62,792	6481	9.4	19.1892	25.0028
R.A. 15 <sup>h</sup> 0 <sup>m</sup>					62,250	6346	8.9	11.0581	23.2655	62,805	6482	9.1	19.2353	26.0017
61,724	6222	9.0	1.0418	23.0904	62,241	6349	8.9	11.5983	21.4720	62,618	6483	9.0	20.2753	8.7266
61,599	6223	9.0	1.1743	9.5820	62,262	6350	8.8	12.3132	24.7989	62,703	6484	8.1	21.1026	16.3873
61,604	6226	9.0	1.7981	11.1124	62,083	6351	9.2	12.6229	4.2729	62,644	6485	9.1	21.1682	11.3918
61,512	6227	8.8	2.6639	1.7661	62,143	6354	9.1	14.7544	10.8656	62,649	6493	9.5	24.7615	11.3182
61,681	6229	8.9	3.3760	19.1590	62,095	6355	9.1	15.0340	5.4146		6494	Var	24.8646	11.3352
61,696	6230	7.9	3.9242	20.4641	62,134	6357	9.3	15.1775	9.5830	62,739	6495	8.3	25.0572	19.9788
61,666	6231	8.6	4.6992	18.2581	62,096	6358	9.1	15.2840	5.2497	62,677	6496	9.1	25.3003	12.8884
61,630	6233	8.8	4.8303	13.4139	62,193	6362	9.0	17.2216	16.7861	R.A. 15 <sup>h</sup> 40 <sup>m</sup>				
61,620	6237	9.3	5.0501	13.1957	62,264	6364	8.9	18.7558	24.9540	62,935	6493	9.5	2.3322	11.3115
61,728	6241	8.6	10.6605	22.9823	62,108	6366	9.0	19.7563	6.8589		6494	Var	2.4356	11.3272
61,519	6248	8.2	13.2857	1.3206	62,097	6368	9.1	19.9868	5.5359	62,993	6495	8.3	2.7362	19.9672
61,756	6249	6.9	13.7682	25.1884	62,235	6373	7.5	21.7792	21.2965	62,945	6496	9.1	2.8906	12.8748
61,670	6253	8.7	14.8902	18.5938	62,227	6376	8.1	22.9598	19.9344	62,852	6500	9.0	4.7377	0.1371
61,709	6254	6.4	14.8977	20.7143	62,255	6377	9.1	24.4562	24.0237	62,994	6501	9.1	4.8876	20.1639
61,710	6256	9.1	15.3788	21.3773	62,169	6379	7.2	25.0476	13.3856	62,927	6503	8.9	6.0198	10.5878
R.A. 15 <sup>h</sup> 8 <sup>m</sup>					R.A. 15 <sup>h</sup> 24 <sup>m</sup>					63,034	6506	9.1	8.7531	25.7181
61,558	6260	8.7	17.7639	4.8108	62,441	6376	8.1	0.6384	19.9497	62,987	6510	8.8	10.4659	18.9950
61,712	6263	8.5	20.2181	21.5729	62,470	6377	9.1	2.1860	24.0194	62,969	6520	9.2	16.6598	15.6565
61,560	6266	8.1	21.6178	4.7494	62,390	6379	7.2	2.6441	13.3748	62,872	6522	8.1	17.3395	2.8700
61,759	6269	9.0	21.8128	25.1229	62,318	6381	8.7	4.0432	2.7747	62,940	6523	8.2	17.7232	12.0859
61,661	6270	9.0	22.1537	17.1336	62,436	6384	9.1	5.4693	19.2967	62,886	6524	9.2	18.7141	4.1753
61,510	6271	9.0	22.3014	1.2540	62,343	6386	8.8	5.4967	5.6737	62,974	6526	9.1	18.7953	16.9144
61,735	6272	9.0	22.2029	23.3137	62,375	6390	7.4	8.8379	11.3465	63,011	6528	9.3	19.9670	23.3012
61,736	6273	8.9	22.3176	23.0247	62,391	6391	9.2	8.8594	13.3675	62,867	6529	8.7	20.2507	2.0560
61,644	6276	9.1	23.5612	15.1964	62,465	6392	8.9	9.2000	23.1522	62,942	6534	8.6	21.2357	11.9528
61,665	6278	8.6	24.1788	17.3439	62,417	6393	9.1	9.2002	16.9319	62,876	6536	7.5	21.7515	2.7134
61,534	6279	7.7	24.5241	2.6843	62,427	6394	8.9	9.4602	18.6014	63,027	6538	8.9	22.0779	24.9605
R.A. 15 <sup>h</sup> 16 <sup>m</sup>					62,398	6398	9.2	11.8251	13.7521	62,861	6540	7.7	23.0480	0.7661
62,102	6327	8.9	0.8462	6.6572	62,328	6403	9.2	14.6530	4.2280	62,877	6541	8.7	23.6252	2.9382
62,179	6328	9.2	1.6940	15.4898	62,475	6404	9.2	14.8193	24.6304	62,907	6542	7.8	23.8204	6.6912
62,091	6329	7.4	2.0187	5.2786	62,337	6405	6.4	15.3127	5.6132	62,964	6543	7.7	24.4488	15.2557
62,104	6331	8.4	3.3781	6.9578	62,437	6406	7.5	15.5046	19.4337	R.A. 15 <sup>h</sup> 48 <sup>m</sup>				
62,132	6332	9.1	3.5473	9.3635	62,466	6407	8.8	15.5672	23.1670	63,052	6540	7.7	0.4868	0.7808
62,114	6333	9.3	4.0806	7.7649	62,331	6411	8.8	19.0814	4.4695	63,073	6541	8.7	1.0911	2.9459
62,115	6334	9.8	4.2561	8.1188	62,446	6413	7.5	19.5418	20.5236	63,111	6542	7.8	1.3334	6.6964
R.A. 15 <sup>h</sup> 16 <sup>m</sup>					62,354	6419	9.1	21.0900	7.2853	63,176	6543	7.7	2.0688	15.2523
62,102	6327	8.9	0.8462	6.6572	62,332	6421	9.1	21.7037	4.5289	63,123	6546	8.4	3.6782	7.5443
62,179	6328	9.2	1.6940	15.4898	62,340	6422	9.0	22.2771	4.7698	63,138	6552	9.2	5.3914	9.1249
62,091	6329	7.4	2.0187	5.2786	62,321	6426	8.7	24.0590	3.5612	63,083	6554	8.2	6.4621	4.4350
62,104	6331	8.4	3.3781	6.9578	62,388	6428	8.0	25.1851	12.7380	63,125	6555	9.0	6.6520	8.4097
62,132	6332	9.1	3.5473	9.3635	R.A. 15 <sup>h</sup> 32 <sup>m</sup>					63,199	6557	8.2	8.2243	17.5862
62,114	6333	9.3	4.0806	7.7649	62,545	6426	8.7	1.5327	3.5636	63,056	6559	9.3	10.1523	0.9906
62,115	6334	9.8	4.2561	8.1188	62,669	6428	8.0	2.7735	12.7259	63,236	6561	8.6	11.5785	21.0706
R.A. 15 <sup>h</sup> 16 <sup>m</sup>					62,735	6430	8.7	3.7140	20.0143	63,211	6564	9.1	12.1335	18.4620
62,102	6327	8.9	0.8462	6.6572	62,625	6432	9.0	5.1005	9.6929	63,212	6565	9.2	12.7110	18.2751
62,179	6328	9.2	1.6940	15.4898	62,768	6434	9.3	5.6230	22.7015	63,059	6566	8.8	13.1710	1.2101
62,091	6329	7.4	2.0187	5.2786	62,611	6435	8.6	5.6710	9.0924	63,275	6568	9.2	13.8741	25.7123
62,104	6331	8.4	3.3781	6.9578	62,573	6442	8.8	8.2028	5.4940	63,187	6570	9.0	14.6383	16.2281
62,132	6332	9.1	3.5473	9.3635	62,720	6443	7.7	8.2569	17.9392	63,119	6572	8.2	15.7423	7.2749
62,114	6333	9.3	4.0806	7.7649	62,531	6444	9.1	8.3891	2.2684	63,061	6573	8.9	16.4441	0.5078
62,115	6334	9.8	4.2561	8.1188	..	6445	Var	8.5329	10.8289	63,120	6575	9.0	16.4528	6.9728
R.A. 15 <sup>h</sup> 16 <sup>m</sup>					62,520	6449	9.3	10.3673	1.1944	63,264	6576	9.2	16.7761	24.7730
62,102	6327	8.9	0.8462	6.6572	62,660	6451	8.8	11.1983	12.2132	63,143	6579	8.9	18.4341	8.8117
62,179	6328	9.2	1.6940	15.4898	62,679	6452	8.8	11.5641	14.0488	63,189	6580	8.7	19.1820	15.7938
62,091	6329	7.4	2.0187	5.2786	62,757	6454	7.5	12.0936	22.4428	63,122	6582	8.3	20.1116	6.8030
62,104	6331	8.4	3.3781	6.9578	62,696	6458	9.2	13.0811	16.3123	63,226	6583	8.2	20.6779	19.1387
62,132	6332	9.1	3.5473	9.3635	62,681	6459	8.8	14.1000	13.4074	63,238	6584	8.2	20.7573	21.8443
62,114	6333	9.3	4.0806	7.7649	62,614	6460	5.8	14.2784	9.2318	63,080	6585	8.7	20.8806	2.6842
62,115	6334	9.8	4.2561	8.1188	62,523	6461	8.7	14.4772	1.2404	63,267	6587	8.8	21.2376	24.1515



Reference No.		Mag.	Standard co-ordinates, 1900 0		Reference No.		Mag.	Standard co-ordinates, 1900 0		Reference No.		Mag.	Standard co-ordinates, 1900 0	
Hyd.	Algiers.		ξ'	η'	Hyd.	Algiers.		ξ'	η'	Hyd.	Algiers.		ξ'	η'
R.A. 15 <sup>h</sup> 48 <sup>m</sup> (continued)					R.A. 16 <sup>h</sup> 4 <sup>m</sup> (continued)					R.A. 16 <sup>h</sup> 36 <sup>m</sup> (continued)				
63,191	6588	8.8	22.1453	16.4957	63,723	6704	9.1	22.6760	21.5009	64,593	6813	9.0	7.1826	22.5582
63,179	6589	7.0	22.3624	15.3654	63,710	6705	8.8	23.2524	20.9844	64,588	6814	9.2	8.5971	21.6528
63,250	6590	9.3	23.6051	22.1618	63,669	6706	6.8	23.6216	14.7674	64,448	6815	9.0	9.0984	3.4555
63,145	6591	6.0	23.7432	9.3480	63,746	6708	8.8	24.7818	23.9147	64,449	6817	6.4	9.2802	3.5674
63,174	6594	8.8	25.9441	14.4047	63,747	6710	7.4	25.3032	23.6216	64,578	6819	8.9	10.3026	18.7019
R.A. 15 <sup>h</sup> 56 <sup>m</sup>					63,640	6712	7.0	25.8975	11.2813	64,405	6824	8.7	14.1372	0.9409
63,481	6590	9.3	1.3116	22.1688	R.A. 16 <sup>h</sup> 12 <sup>m</sup>					64,407	6825	8.6	14.4730	0.6622
63,371	6591	6.0	1.2893	9.3539	63,975	6703	9.3	0.1612	24.5304	64,567	6826	8.6	16.0502	14.8266
63,409	6594	8.8	3.5532	14.3827	63,946	6704	9.1	0.3741	21.5198	64,580	6827	9.0	16.2404	18.9875
63,362	6595	7.6	3.6254	8.2802	63,947	6705	8.8	0.9441	20.9960	64,424	6830	9.2	17.7084	1.4468
63,373	6597	8.6	5.0031	9.7774	63,894	6706	6.8	1.2356	14.7747	64,501	6831	8.4	17.8258	7.0952
63,363	6601	9.1	7.1489	9.2274	63,976	6708	8.8	2.5101	23.9064	R.A. 16 <sup>h</sup> 44 <sup>m</sup>				
63,316	6604	9.1	7.8278	2.5733	63,968	6710	7.4	3.0278	23.6066	64,651	6845	7.8	4.7025	0.0342
63,418	6606	9.2	8.7525	15.4941	63,852	6712	7.0	3.4675	11.2604	64,760	6846	9.0	5.8376	20.1677
63,317	6607	9.0	9.4898	3.0069	63,802	6713	9.1	4.0450	0.7799	64,806	6847	9.0	6.0965	24.9395
63,504	6608	9.0	9.6831	24.6154	63,910	6717	8.9	5.1585	17.1553	64,808	6849	9.0	7.4747	24.8099
63,505	6610	8.4	10.8725	23.6344	63,911	6718	9.0	6.2238	17.0551	64,734	6852	8.6	8.2099	15.8432
63,392	6611	7.6	10.8635	11.4776	63,803	6719	9.2	6.2996	0.8557	64,703	6853	8.7	8.1962	10.2156
63,474	6614	7.3	13.0883	21.3927	63,827	6727	9.0	10.2481	7.4112	64,773	6854	8.5	9.1993	22.1627
63,350	6615	8.9	13.6834	6.7102	63,887	6728	7.6	10.4406	13.6628	64,735	6857	8.6	10.3503	15.4179
63,323	6619	9.2	14.8277	3.6423	63,956	6733	8.6	12.6268	20.8407	64,682	6858	8.3	10.5155	4.3552
63,319	6622	9.2	16.4157	3.3192	63,914	6735	9.0	15.0794	17.1703	64,767	6865	7.7	11.9373	21.1200
63,509	6625	9.0	17.3488	24.2159	63,805	6738	7.1	16.5819	0.6910	64,774	6868	9.0	13.1992	22.4706
63,476	6628	8.8	19.1081	20.7821	63,898	6739	9.1	17.4368	14.9268	64,811	6870	8.9	15.5065	25.4002
63,405	6631	8.8	20.6116	13.9439	63,829	6742	8.6	18.7420	7.4942	64,812	6873	9.2	16.2662	24.6579
63,313	6634	8.8	21.5450	1.3885	63,904	6747	8.9	20.1582	16.2258	64,692	6874	8.0	16.4083	6.4639
63,368	6635	8.0	21.6119	8.5243	63,899	6748	9.2	20.2208	15.5050	64,756	6876	8.5	17.3281	18.8116
63,336	6638	8.8	23.1392	4.6075	63,944	6751	7.0	20.8034	20.2175	64,727	6877	9.1	18.5764	14.9335
63,320	6642	7.1	23.6833	3.0335	63,974	6754	8.5	22.5219	23.4636	64,708	6878	8.7	18.6610	9.7299
63,471	6643	8.0	23.6832	19.8198	63,925	6756	8.6	24.8714	18.0476	64,657	6885	8.8	21.5656	1.2050
63,329	6645	8.9	24.3444	3.5571	R.A. 16 <sup>h</sup> 20 <sup>m</sup>					64,757	6886	9.0	22.1864	19.1183
63,387	6646	8.4	24.3320	11.6073	64,164	6754	8.5	0.2446	23.4845	64,676	6887	6.2	22.8953	4.0067
63,429	6648	9.1	24.9420	16.6892	64,097	6756	8.6	2.5263	18.0387	64,732	6893	9.0	24.8643	14.4882
R.A. 16 <sup>h</sup> 4 <sup>m</sup>					64,068	6759	8.9	5.3940	13.5965	R.A. 16 <sup>h</sup> 52 <sup>m</sup>				
63,588	6638	8.8	0.6260	4.6210	64,177	6765	8.1	10.0679	25.0447	64,857	6887	6.2	0.3746	4.0248
63,571	6642	7.1	1.1504	3.0405	64,112	6767	9.0	11.5402	18.4964	64,905	6893	9.0	2.4746	14.4799
63,706	6643	8.0	1.3604	19.8258	64,131	6769	9.3	14.5746	19.8047	64,940	6895	8.2	3.7075	21.6147
63,583	6645	8.9	1.8180	3.5561	64,170	6772	8.2	16.6373	23.7064	64,951	6896	8.2	3.7785	23.5733
63,642	6646	8.4	1.9063	11.6058	64,180	6773	9.1	20.7960	24.9881	64,880	6897	8.5	4.3983	8.5920
63,688	6648	9.1	2.5798	16.6795	64,095	6774	8.3	22.5223	17.1961	64,896	6898	9.1	4.7381	12.0469
63,739	6652	9.2	3.8002	23.6242	64,081	6775	8.6	23.7585	15.7467	64,945	6899	8.7	5.0189	22.7029
63,715	6654	8.8	4.4188	20.8208	R.A. 16 <sup>h</sup> 28 <sup>m</sup>					64,923	6901	8.9	5.7983	19.1940
63,707	6655	8.2	4.5020	20.1447	64,336	6774	8.3	0.1666	17.2172	64,916	6904	6.7	6.2429	17.9078
63,597	6656	4.3	4.4369	5.7973	64,327	6775	8.6	1.3847	15.7522	64,851	6905	8.4	6.6977	0.3057
63,727	6658	8.5	5.7262	22.4997	64,265	6780	8.9	4.4951	8.2756	64,935	6908	8.4	9.6023	20.6597
63,612	6659	5.6	6.0886	8.1959	64,341	6782	8.8	7.1810	16.7917	64,931	6912	8.8	12.2414	20.4135
63,624	6660	8.4	6.1837	9.0840	64,330	6783	5.3	7.9848	16.0398	64,901	6914	8.7	12.8922	13.6517
63,675	6662	7.9	7.0172	14.7368	64,267	6784	8.9	8.6828	7.8329	64,908	6916	8.8	13.0317	15.7677
63,605	6664	9.0	8.0794	7.0121	64,268	6785	8.5	8.8902	7.4568	64,924	6917	8.5	13.1908	18.5428
63,613	6665	8.8	8.3274	7.6459	64,216	6788	9.1	10.2986	2.3701	64,882	6920	8.5	14.4895	8.5738
.	6668	Var.	9.2103	16.1711	64,324	6789	9.1	11.9647	14.7160	64,932	6923	9.1	15.1881	20.3834
63,606	6669	8.5	9.4290	6.8996	..	6794	9.0	16.0711	0.0667	64,852	6924	8.9	15.4636	0.7742
63,720	6672	9.0	11.1678	21.1147	64,361	6795	8.6	17.3093	21.0067	64,911	6925	8.8	16.6879	17.1666
63,590	6676	8.1	12.2377	5.2061	64,207	6797	9.0	17.8899	1.5930	64,912	6929	9.2	17.7130	16.6246
63,743	6679	7.2	14.1605	23.7242	64,307	6799	9.0	19.6183	11.7592	64,920	6930	9.3	18.2302	17.9062
63,691	6681	9.1	15.1301	17.6351	64,202	6801	9.1	20.6346	0.3521	64,967	6932	9.0	18.6314	24.9683
63,599	6682	9.0	15.2246	6.2788	64,240	6803	8.9	20.9660	5.1271	64,900	6933	9.1	18.7104	12.4191
63,757	6684	8.5	15.5337	24.2155	64,242	6804	9.0	22.8448	4.8288	64,968	6935	9.1	19.5846	24.7889
63,577	6686	8.5	16.1334	2.6521	64,372	6805	8.7	23.2685	23.2615	64,914	6938	7.4	20.0840	16.7240
63,692	6688	9.3	17.4523	16.9290	R.A. 16 <sup>h</sup> 36 <sup>m</sup>					64,868	6939	8.6	20.4519	6.1985
63,634	6691	8.6	18.5323	10.6592	64,459	6804	9.0	0.3344	4.8458	64,864	6940	7.3	22.3663	4.4851
63,639	6692	8.9	18.7453	11.1494	64,591	6805	8.7	0.9887	23.2728	64,898				



Reference No.		Mag.		Standard co-ordinates, 1900 0	
Hyd.	Algiers			ξ'	η'
<b>R.A. 16<sup>h</sup> 52<sup>m</sup> (continued)</b>					
64,865	6947	9.1	24.4975	4.6478	
64,876	6948	7.8	24.5531	6.4240	
64,904	6950	9.2	25.7444	13.8095	
<b>R.A. 17<sup>h</sup> 0<sup>m</sup></b>					
65,105	6942	8.9	0.3178	11.5979	
65,099	6944	9.1	0.6065	10.5507	
65,091	6945	9.1	1.4071	9.6957	
65,049	6947	9.1	1.9848	4.6450	
65,069	6948	7.8	2.0626	6.4202	
65,119	6950	9.2	3.3461	13.7900	
65,050	6951	8.8	4.2842	4.5647	
65,001	6952	8.2	5.6755	0.9840	
65,002	6954	8.6	6.0814	0.3260	
65,131	6955	9.1	6.4252	15.9549	
65,132	6958	8.7	6.6812	16.2546	
65,144	6960	8.9	6.9350	17.6112	
65,035	6961	8.8	6.9727	3.9710	
65,052	6963	8.6	7.4779	4.9906	
65,108	6964	8.8	8.2678	11.8232	
65,161	6967	8.3	9.4182	20.6290	
65,053	6968	6.4	9.7085	5.2529	
65,086	6970	9.1	10.4539	9.2280	
65,184	6971	9.2	10.6569	23.4214	
65,014	6972	8.1	11.1783	1.6358	
65,192	6973	7.2	11.6385	24.2098	
65,126	6974	7.4	12.3005	14.7099	
65,127	6977	9.1	13.5888	15.1484	
65,147	6978	6.8	13.6274	18.1085	
65,121	6979	8.3	13.7835	14.5452	
65,022	6994	7.9	20.3888	2.0493	
65,089	6999	8.6	22.9071	8.7601	
65,046	7001	9.2	23.7373	4.0512	
65,170	7002	8.9	23.7510	21.0137	
65,080	7003	8.1	24.2839	7.6603	
65,151	7004	9.0	25.1235	18.5088	
..	7007	9.0	25.6749	0.1185	
<b>R.A. 17<sup>h</sup> 8<sup>m</sup></b>					
65,453	6999	8.6	0.4458	8.7765	
65,334	7001	9.2	1.2172	4.0574	
65,646	7002	8.9	1.4431	21.0189	
65,431	7003	8.1	1.8088	7.6597	
65,608	7004	9.0	2.7841	18.4066	
65,254	7007	9.0	3.1054	0.1019	
65,708	7009	8.8	3.9126	23.5597	
65,433	7012	6.8	4.9519	7.3228	
65,475	7013	8.0	5.0023	9.3756	
65,547	7015	9.0	5.3975	14.1092	
65,568	7016	8.5	5.5715	15.9980	
65,670	7018	8.9	5.8503	22.2887	
65,373	7019	8.1	5.7920	4.6112	
65,738	7020	8.7	6.1229	25.5246	
65,653	7024	8.5	7.6539	21.0040	
65,618	7030	7.3	9.2959	18.8208	
65,598	7032	9.0	10.2180	17.8556	
65,416	7034	8.8	11.2742	6.5969	
65,549	7035	8.9	11.4382	13.5747	
65,576	7044	8.4	14.0127	15.9163	
65,498	7046	7.2	15.6138	11.2396	
65,714	7048	8.5	15.7842	24.1769	
65,696	7049	8.9	16.0748	22.7488	
65,578	7051	8.2	16.1711	16.0611	
65,319	7052	8.9	16.8587	2.9000	
65,320	7053	8.9	16.9046	3.1587	
65,698	7055	9.1	18.3879	22.9905	
65,731	7056	8.9	19.4463	25.7060	
<b>R.A. 17<sup>h</sup> 16<sup>m</sup></b>					
65,987	7064	9.1	0.3000	10.8589	
65,868	7066	9.0	1.6384	5.2942	
65,969	7067	8.9	3.3800	9.4007	
66,084	7068	8.9	3.6761	18.8100	
65,848	7069	8.7	4.1450	4.1073	
65,931	7070	8.7	4.1900	7.4400	
65,871	7072	8.3	4.3846	5.7311	
65,908	7074	8.9	4.8534	6.5685	
66,151	7075	8.9	5.3643	25.6038	
65,909	7076	9.3	5.4612	6.9354	
65,790	7077	8.9	5.5218	2.5655	
66,075	7083	9.0	7.3754	18.1414	
66,085	7088	9.1	8.4702	18.8793	
65,827	7092	9.1	10.1628	4.0979	
66,027	7093	5.0	10.2259	13.0692	
66,061	7094	9.0	10.3473	16.4769	
65,881	7095	8.9	10.5516	5.4086	
65,882	7096	8.9	10.6850	5.6109	
66,087	7097	8.4	11.2977	18.4702	
66,123	7101	9.1	11.8623	23.0368	
65,798	7102	8.4	12.2399	2.6791	
65,915	7105	7.5	12.7639	6.6401	
66,046	7106	9.0	13.2019	15.3380	
65,960	7107	8.6	13.3247	8.7100	
65,760	7108	8.9	13.5504	0.6978	
66,039	7109	9.2	14.2623	13.5291	
65,977	7113	8.7	14.8594	9.6767	
65,802	7115	8.3	15.1612	2.5425	
65,804	7118	8.2	15.8633	2.4206	
66,095	7123	8.0	17.5212	20.4394	
66,096	7124	8.4	18.0602	19.5638	
66,067	7128	6.0	20.5974	17.1927	
65,862	7130	8.6	20.7868	5.1437	
66,129	7132	8.5	21.8918	22.6583	
65,782	7134	8.7	22.1639	1.2030	
65,985	7136	8.8	22.7428	10.1278	
66,040	7139	9.0	23.0513	14.0774	
65,845	7140	8.7	23.1219	3.7726	
66,098	7141	8.5	23.0957	19.5122	
65,965	7142	8.6	23.9558	9.3097	
66,068	7144	8.9	24.1113	16.9547	
66,069	7145	9.0	25.2929	16.5432	
<b>R.A. 17<sup>h</sup> 24<sup>m</sup></b>					
66,303	7136	8.8	0.2987	10.1462	
66,347	7139	9.0	0.6566	14.0915	
66,234	7140	8.7	0.5982	3.7865	
66,392	7141	8.5	0.7690	19.5258	
66,287	7142	8.6	1.5015	9.3129	
66,372	7144	8.9	1.7526	16.9556	
66,361	7145	9.0	2.9289	16.5291	
66,375	7147	8.5	3.8398	17.5969	
66,376	7148	6.9	3.9011	16.9336	
66,291	7149	8.8	4.1605	8.8581	
66,235	7152	8.9	5.3855	3.7507	
66,261	7153	8.5	5.7997	6.1794	
66,312	7156	8.1	8.2489	11.5743	
66,236	7157	8.3	8.6594	4.3646	
66,380	7158	9.1	9.0700	17.2254	
66,356	7162	9.0	11.0239	14.9674	
66,389	7170	9.0	15.9849	17.8956	
<b>R.A. 17<sup>h</sup> 24<sup>m</sup> (continued)</b>					
66,397	7172	9.0	17.0650	18.8651	
66,315	7173	8.8	17.1692	10.6718	
66,451	7174	9.1	17.3815	24.6830	
66,226	7176	8.6	18.7649	2.5444	
66,278	7177	8.7	19.0426	7.0916	
66,351	7178	9.1	19.0043	14.7255	
66,426	7179	8.2	20.3959	22.6205	
66,428	7180	8.5	21.3867	22.0546	
66,415	7181	8.9	21.8146	21.2885	
66,369	7183	8.9	22.3950	15.8046	
66,299	7184	8.7	22.7393	9.4941	
66,214	7191	8.8	24.1121	2.0168	
66,353	7192	8.9	24.2089	14.4705	
66,205	7196	8.8	25.5842	1.4482	
<b>R.A. 17<sup>h</sup> 32<sup>m</sup></b>					
66,724	7184	8.7	0.2872	9.5124	
66,517	7191	8.8	1.5665	2.0188	
66,855	7192	8.9	1.8191	14.4704	
66,518	7196	8.8	3.0314	1.4323	
66,553	7199	8.5	3.7673	3.6395	
66,888	7200	8.8	4.6201	14.7777	
67,128	7203	9.0	5.3317	22.8661	
67,161	7204	6.5	5.4617	24.7388	
66,805	7206	8.8	6.3348	12.2031	
66,731	7208	8.6	6.5255	9.9329	
66,862	7209	8.5	6.9413	14.6273	
66,560	7210	8.7	7.2911	3.4624	
66,587	7213	8.7	7.9539	4.6657	
67,133	7214	9.2	8.4863	23.7841	
66,809	7215	8.5	8.5670	11.9572	
66,505	7217	8.2	9.2922	1.1494	
66,810	7218	8.4	9.6395	11.7112	
66,983	7222	9.1	11.1509	18.7214	
66,672	7223	8.1	11.7534	8.5283	
66,510	7224	9.0	11.8909	0.9082	
66,838	7225	8.9	12.1139	12.7365	
66,895	7226	8.7	12.2136	15.3442	
66,674	7227	8.9	12.6649	8.2806	
67,021	7229	8.7	13.3954	19.1985	
66,643	7230	8.9	13.5569	6.9532	
67,141	7232	6.4	15.0561	23.2439	
66,814	7233	8.9	15.2154	11.8204	
67,062	7234	9.0	15.3102	20.1645	
66,706	7235	8.9	15.3876	9.1732	
66,707	7238	8.8	16.7552	8.8225	
66,995	7240	9.0	17.1933	18.1551	
66,790	7244	8.6	21.0949	10.7463	
	7245	8.5	21.5273	0.0796	
66,906	7247	9.1	22.1117	15.6975	
67,152	7252	8.8	22.7330	23.7361	
67,096	7256	9.1	24.8936	21.1443	
66,531	7258	8.3	25.9749	1.7012	
<b>R.A. 17<sup>h</sup> 40<sup>m</sup></b>					
67,815	7252	8.8	0.4591	23.7545	
67,737	7256	9.1	2.5872	21.1346	
67,278	7258	8.3	3.4250	1.6811	
67,714	7265	4.3	5.8557	20.6268	
67,840	7268	9.0	7.1731	25.6057	
67,745	7271	8.6	8.3911	21.2358	
67,664	7272	9.0	8.4073	17.9674	
67,821	7274	8.7	9.3124	24.7501	
67,749	7277	8.3	10.7866	20.9955	
67,872	7278	9.2	11.0972	25.9274	
67,318	7279	8.4	12.2419	2.9432	
67,548	7281	8.9	12.7597	13.6107	



Reference No.		Mag.	Standard co-ordinates, 1900.0.		Reference No.		Mag.	Standard co-ordinates, 1900.0.		Reference No.		Mag.	Standard co-ordinates, 1900.0.	
Hyd.	Algiers		ξ'	η'	Hyd.	Algiers		ξ'	η'	Hyd.	Algiers		ξ'	η'
<b>R.A. 17<sup>h</sup> 40<sup>m</sup> (continued)</b>					<b>R.A. 17<sup>h</sup> 56<sup>m</sup> (continued)</b>					<b>R.A. 18<sup>h</sup> 12<sup>m</sup></b>				
67,701	7283	8.7	13.5236	19.6710	68,629	7425	9.0	17.6759	11.0234	70,899	7549	9.5	1.0752	13.9488
67,617	7284	8.8	14.2094	15.7734	68,586	7439	9.4	19.4263	6.6708	70,900	7550	4.1	1.1931	14.0600
67,670	7285	8.8	14.8836	18.6531	68,611	7441	9.1	20.3756	8.4571	71,269	7552	9.0	1.5528	23.1926
67,568	7286	8.8	15.0254	14.2405	68,643	7442	8.7	20.6905	12.4155	70,679	7554	9.0	2.0981	9.1768
67,267	7288	9.0	15.1754	0.5002	68,633	7443	8.7	21.0184	10.9267	71,217	7557	6.3	2.5629	21.9101
67,459	7289	9.0	15.9329	8.9683	68,720	7448	8.6	22.4210	21.1283	70,817	7560	9.0	3.3924	11.9699
67,854	7290	8.8	16.5483	25.5383	68,671	7449	8.7	22.7753	14.8056	71,220	7563	9.1	3.6953	22.1240
67,597	7291	9.1	17.0218	14.9355	68,519	7451	9.1	23.4788	0.7290	71,380	7565	8.9	3.8854	25.6718
67,481	7292	7.2	17.3606	10.6012	68,521	7455	8.9	24.4215	0.5631	71,382	7566	8.8	4.0886	25.4304
67,761	7298	9.1	19.1095	21.3305	68,653	7457	8.8	24.5111	12.5229	70,818	7570	8.3	4.7721	11.8227
67,490	7304	8.1	22.7772	10.5987	68,705	7459	9.0	24.6578	18.6693	70,724	7573	5.5	5.2824	10.1091
67,274	7305	7.5	23.3042	0.8471	68,573	7461	9.1	25.7628	5.5620	70,532	7574	6.9	5.3089	6.0275
67,275	7306	7.3	23.3304	0.7098	68,589	7462	8.8	25.9168	6.6407	70,314	7576	8.0	5.7581	0.6021
<b>R.A. 17<sup>h</sup> 48<sup>m</sup></b>					<b>R.A. 18<sup>h</sup> 4<sup>m</sup></b>					70,823	7577	9.3	6.1892	12.2427
68,148	7304	8.1	0.3390	10.6165	69,917	7448	8.6	0.1144	21.1506	71,391	7586	9.0	8.3148	25.7872
67,901	7305	7.5	0.7440	0.8589	69,523	7449	8.7	0.3897	14.8234	70,653	7589	7.8	9.1540	7.9310
67,902	7306	7.3	0.7684	0.7213	68,852	7451	9.1	0.9171	0.7387	70,695	7597	9.0	11.8773	9.1701
68,400	7308	8.9	3.6304	23.8342	68,854	7455	8.9	1.8577	0.5615	70,658	7599	8.8	11.9813	8.5395
68,352	7310	8.7	4.0406	22.1591	69,371	7457	8.8	2.0970	12.5191	70,700	7603	9.0	12.8045	9.4833
67,964	7311	9.3	4.7253	3.8701	69,778	7459	9.0	2.3205	18.6630	71,405	7608	9.0	13.6300	25.4812
68,168	7312	8.7	5.2677	12.2524	69,079	7461	9.1	3.2613	5.5436	71,407	7609	9.1	14.3645	25.7180
68,192	7316	8.4	6.9693	13.3882	69,147	7462	8.8	3.4288	6.6204	70,743	7612	9.3	15.2578	10.4874
68,024	7318	8.4	7.3036	5.9293	70,164	7465	7.0	4.1024	25.6950	71,124	7615	8.9	15.4769	18.9872
67,946	7319	9.0	7.5004	2.9991	69,473	7466	9.0	4.0996	13.8292	71,039	7618	9.3	15.7636	17.0925
68,086	7320	9.1	7.5953	7.9962	69,781	7468	7.8	4.2155	19.1972	71,253	7625	9.2	18.1304	22.2964
67,923	7321	8.2	8.0050	1.6336	69,715	7471	6.5	5.1563	18.4650	71,129	7630	9.2	19.0323	19.5616
68,158	7328	8.8	10.4161	10.9072	69,531	7472	8.6	5.5851	15.5628	71,046	7631	9.1	19.1696	16.9539
68,266	7329	8.8	10.5557	17.6541	69,029	7473	9.0	5.9035	5.3950	71,130	7632	9.0	19.3589	19.4061
68,358	7331	9.1	11.5509	21.9474	69,085	7476	9.0	6.3023	6.2497	70,469	7636	8.4	20.3296	4.1151
68,212	7333	9.0	11.8149	14.5717	70,060	7478	8.5	6.5749	23.4772	70,335	7637	8.9	21.2827	0.7131
68,281	7337	9.0	14.7171	18.1236	69,583	7483	7.9	8.7658	16.2004	70,519	7639	8.8	21.9716	5.0004
68,197	7339	8.6	14.9610	13.0284	68,861	7484	9.0	8.7592	0.5146	71,206	7640	9.2	22.0616	21.3272
68,035	7340	8.6	16.0251	5.6416	69,722	7486	6.9	9.2153	18.5632	71,087	7641	9.0	22.2125	18.0216
68,407	7350	7.2	19.5006	24.2783	68,890	7488	8.1	9.4902	2.2108	70,378	7644	9.3	23.3041	2.1911
68,368	7351	9.2	19.5161	22.5743	69,380	7489	8.5	9.9042	12.1954	71,433	7649	8.6	23.9262	25.8457
68,285	7353	9.2	19.7563	18.1374	69,727	7491	8.3	10.0130	18.0053	70,945	7650	9.1	24.2068	14.5893
68,160	7354	8.8	20.9987	11.1597	69,250	7493	8.8	10.2033	8.7131	70,756	7653	9.3	25.1091	10.0197
67,960	7358	8.8	22.2667	3.2293	69,730	7494	8.9	10.4422	18.0596	70,382	7654	9.0	25.4334	2.4011
	7361	8.2	22.9329	0.2495	69,796	7499	9.0	11.3315	19.2953	71,094	7655	9.3	25.5795	18.0725
68,105	7364	8.5	23.2943	8.4062	68,892	7500	8.4	11.4958	1.6058	70,893	7656	9.5	25.6806	13.5327
68,106	7370	8.9	24.5600	7.9811	69,868	7501	8.8	11.6344	20.0577	<b>R.A. 18<sup>h</sup> 20<sup>m</sup></b>				
67,984	7375	8.8	25.6909	4.1904	70,245	7504	8.9	12.3998	25.8746	71,559	7644	9.3	0.7607	2.2027
<b>R.A. 17<sup>h</sup> 56<sup>m</sup></b>					69,669	7505	8.8	13.6799	17.1398	72,260	7649	8.6	1.6788	25.8482
68,501	7361	8.2	0.3652	0.2657	69,165	7506	9.1	13.6858	6.7609	71,906	7650	9.1	1.8184	14.5891
68,600	7364	8.5	0.8286	8.4177	69,391	7509	9.2	14.3348	12.0182	71,759	7653	9.3	2.6635	10.0087
68,590	7370	8.9	2.0890	7.9771	69,676	7514	8.6	15.2175	16.9638	71,563	7654	9.0	2.8924	2.3872
68,551	7375	8.8	3.1723	4.1731	69,607	7516	8.7	15.5565	15.7165	71,990	7655	9.3	3.2346	18.0545
68,526	7380	8.0	4.8931	1.6432	69,395	7518	8.8	16.1739	11.8441	71,876	7656	9.5	3.2788	13.5141
68,655	7384	8.0	6.1336	13.4575	69,611	7520	9.0	16.2991	15.9028	71,909	7657	9.0	3.6405	14.5843
68,552	7389	6.4	7.5192	4.9880	69,295	7523	8.7	17.0417	9.7977	72,079	7658	8.7	3.9142	20.5892
68,728	7390	8.9	7.7736	21.7174	69,222	7525	9.1	18.3015	8.0776	71,733	7664	9.1	5.4051	8.5048
68,693	7391	8.7	8.4898	18.5306	69,055	7526	9.0	18.4711	5.2675	71,762	7666	8.4	5.6243	9.4502
68,508	7397	8.8	9.8598	0.3509	69,117	7527	7.8	18.6177	6.3494	72,126	7667	8.2	6.2437	21.5790
68,648	7399	8.4	10.1499	12.7966	69,621	7530	9.3	19.2334	16.0390	72,223	7668	9.0	6.8012	24.6411
68,627	7401	8.3	10.5413	10.5804	69,449	7534	8.7	20.5398	13.1516	72,162	7670	9.0	7.7457	23.4469
68,580	7403	8.5	10.6669	7.1863	69,181	7536	8.9	20.6234	6.7437	71,916	7673	9.2	8.1122	15.2344
68,509	7404	8.2	10.6775	0.5358	69,229	7538	8.8	21.1750	7.8374	71,668	7674	9.0	8.1325	5.5275
68,603	7408	9.1	11.9426	8.9030	70,039	7542	8.8	21.9929	22.0556	72,194	7677	9.0	9.0125	23.7715
68,764	7412	8.6	13.9586	24.5436	69,628	7543	8.5	22.0696	16.4684	71,785	7682	8.7	10.1943	11.0342
68,695	7414	8.1	14.8213	19.0939	70,206	7544	8.9	22.2994	25.8086	72,128	7685	8.9	11.1390	22.5063
68,619	7415	7.3	14.8396	9.8403	69,509	7549	9.5	23.4716	13.9397	71,718	7687	5.6	11.2944	8.1434
68,784	7420	9.0	16.3028	25.4609	69,512	7550	4.1	23.5881	14.0524	71,882	7688	8.7	12.0838	14.1105
68,567	7421	9.1	16.3708	6.2456	70,096	7552	9.0	23.8335	23.1885	72,202	7689	9.1	12.2940	24.2129
68,640	7422	9.0	16.5654	12.2848	69,267	7554	9.0	24.5541	9.1809	71,821	7693	9.0	14.7333	11.9362
					70,045	7557	6.3	24.8596	21.9194	72,175	7694	9.0	14.7271	23.1529
					69,416	7560	9.0	25.8134	11.9900	72,059	7695	9.2	15.3519	19.9428



Reference No. Mag. Standard co-ordinates, 1900-0					Reference No. Mag. Standard co-ordinates, 1900-0					Reference No. Mag. Standard co-ordinates, 1900-0				
Hyd.	Algiers.	ξ	η		Hyd.	Algiers.	ξ	η		Hyd.	Algiers.	ξ	η	
<b>R.A. 18<sup>h</sup> 20<sup>m</sup> (continued)</b>					<b>R.A. 18<sup>h</sup> 36<sup>m</sup> (continued)</b>					<b>R.A. 18<sup>h</sup> 44<sup>m</sup> (continued)</b>				
72,100	7701	9.2	16.6922	21.6317	74,982	7821	8.6	6.0233	25.6614	75,409	7955	9.0	21.2780	8.6550
71,531	7704	8.9	18.5338	1.0336	74,571	7822	9.4	6.0413	14.3243	75,782	7960	9.0	22.2904	23.1758
72,101	7705	8.9	18.5781	20.8061	74,495	7824	9.1	6.4971	12.9345	75,653	7961	9.2	22.4947	18.2855
72,004	7708	9.1	18.9670	17.9275	74,072	7825	7.6	7.2631	2.9251	75,575	7966	8.6	23.2866	15.1091
71,793	7709	8.9	18.9947	11.4743	74,385	7826	8.7	7.3260	10.1826	75,342	7968	9.0	23.8464	7.4392
71,794	7711	8.8	19.0978	11.3643	74,533	7827	9.0	7.6277	13.6694		7969	7.3	24.0071	0.0627
71,955	7712	8.8	19.1135	16.6044	74,788	7830	8.8	9.2808	20.0295	75,119	7970	9.2	24.1095	1.9931
72,006	7715	9.3	19.8948	17.8169	74,336	7831	9.1	9.3508	8.7649	75,685	7971	7.3	24.2361	18.8248
72,104	7716	9.1	20.7448	21.4127	74,853	7832	8.8	9.4344	21.9955	75,811	7972	9.0	24.2136	24.5292
71,626	7717	9.2	21.0618	3.7432	74,300	7833	8.9	9.9781	8.0515	75,537	7974	9.0	24.7748	13.7035
72,009	7718	8.9	21.0023	18.1751	74,716	7842	8.5	13.0121	17.9874	75,120	7975	8.9	25.3662	1.7179
72,106	7723	8.9	22.6452	21.4330	74,034	7843	9.0	13.0244	1.7117	75,125	7977	9.1	25.9406	1.6927
71,869	7726	8.2	23.8739	13.2323	74,345	7845	8.8	13.9599	8.3464	<b>R.A. 18<sup>h</sup> 52<sup>m</sup></b>				
72,186	7730	8.8	25.7458	22.8803	74,346	7846	9.0	14.0715	8.7150	76,188	7961	9.2	0.1526	18.3069
71,656	7731	8.6	25.9847	5.2874	74,216	7849	7.9	14.3708	5.8999	76,156	7966	8.6	0.9048	15.1205
<b>R.A. 18<sup>h</sup> 28<sup>m</sup></b>					74,626	7850	9.3	14.5988	16.1370	76,058	7968	9.0	1.3686	7.4440
73,477	7723	8.9	0.3426	21.4524	74,724	7857	8.8	16.8771	18.0040	75,902	7969	7.3	1.4371	0.0661
72,982	7726	8.2	1.4687	13.2365	74,506	7859	8.1	17.4289	13.2068	75,937	7970	9.2	1.5636	1.9951
73,648	7730	8.8	3.4610	22.8594	74,173	7861	9.1	17.8212	4.7746	76,204	7971	7.3	1.9008	18.8239
72,524	7731	8.6	3.4798	5.2664	73,987	7863	8.5	18.6841	0.8916	76,284	7972	9.0	1.9497	24.5282
73,422	7732	8.8	4.6587	20.1420	74,175	7868	8.8	19.6736	4.7649	76,143	7974	9.0	2.3753	13.6962
73,213	7736	8.5	6.0096	16.8339	74,551	7869	8.0	20.4770	13.8809	75,940	7975	8.9	2.8167	1.7047
73,660	7743	9.2	7.0701	22.9237	74,728	7871	9.2	21.2295	18.5848	75,942	7977	9.1	3.3907	1.6727
72,816	7746	9.3	7.6645	9.8771	74,802	7872	9.0	21.5113	20.5772	76,299	7979	9.2	4.3239	25.9607
73,589	7748	9.3	8.2345	22.4525	74,906	7873	9.1	21.5409	23.3097	75,910	7980	9.2	4.2034	0.8706
72,876	7750	9.3	8.4213	10.6680	74,479	7874	9.0	21.7138	12.3892	76,034	7981	8.8	4.6727	6.1018
73,221	7756	9.0	9.1990	16.7749	74,412	7876	8.3	22.3637	10.0171	76,035	7983	8.5	5.3164	5.6054
72,825	7757	9.2	10.1950	9.6982	74,553	7877	6.4	22.3518	14.2595	76,127	7984	9.0	5.5411	12.6419
72,602	7761	8.8	11.6993	6.3026	74,181	7878	9.1	22.5730	5.1493	76,145	7985	9.3	5.8464	13.4270
72,770	7762	9.1	11.8409	9.3704	74,480	7879	8.7	22.7966	11.6719	76,128	7989	9.3	6.5665	13.1443
73,165	7763	9.2	11.9402	16.6953	74,640	7882	9.0	24.4283	16.5761	75,970	7990	7.8	6.7869	2.7312
..	7764	9.0	12.1546	0.0239	74,444	7884	9.1	25.0048	11.5537	75,915	7997	9.0	9.4892	0.2505
72,545	7767	9.3	12.5195	5.2518	74,977	7886	9.1	25.5650	25.5346	76,037	7999	8.9	11.0897	5.7607
72,549	7769	9.1	13.3971	5.2454	74,189	7887	8.7	25.9303	4.9014	76,100	8000	5.5	11.3148	10.4455
73,450	7770	9.3	13.9743	20.5552	<b>R.A. 18<sup>h</sup> 44<sup>m</sup></b>					76,174	8001	8.6	12.0193	16.3876
73,809	7776	8.7	16.0891	25.6975	75,204	7878	9.1	0.0665	5.1697	76,175	8004	4.1	12.3429	15.8558
72,953	7778	7.9	16.8872	12.0292	75,478	7879	8.7	0.3718	11.6895	76,255	8005	8.7	12.4417	23.4552
72,498	7779	9.4	16.9363	4.3195	75,586	7882	9.0	2.0647	16.5729	75,920	8007	9.2	12.9812	0.4593
73,174	7782	9.2	17.2732	16.6372	75,481	7884	9.1	2.5784	11.5439	76,062	8008	7.6	13.6938	7.6770
72,841	7783	9.1	17.3165	10.2877	75,813	7886	9.1	3.3134	25.5157	76,249	8009	9.2	13.6945	21.5835
..	7787	8.7	19.5299	0.0544	75,209	7887	8.7	3.4205	4.8811	76,102	8017	9.1	15.2559	10.4457
72,621	7791	8.2	20.6403	5.7596	75,352	7891	8.8	4.6524	7.8837	76,289	8019	9.3	16.3931	25.4678
72,624	7792	9.0	20.8354	5.9484	75,313	7892	9.1	4.9848	7.0437	76,078	8020	9.1	16.4975	8.7653
73,086	7793	9.1	21.4519	14.5527	75,589	7893	9.2	5.7018	15.9524	76,183	8021	8.9	16.5012	17.3899
73,547	7794	9.1	21.4435	21.8185	75,063	7895	8.9	6.5956	0.6892	76,275	8024	8.3	17.4736	24.5790
72,452	7800	9.1	22.2721	2.6444	75,265	7898	8.1	7.2051	5.6028	76,277	8027	9.4	18.2215	23.7025
73,470	7801	8.8	22.6777	19.9798	75,542	7899	9.3	7.3577	13.8679	76,117	8030	9.3	19.0302	12.2975
73,636	7802	8.7	22.8042	22.4325	75,174	7908	8.9	9.9485	4.1727	76,259	8031	9.5	19.5470	23.6400
73,401	7804	8.8	23.2976	19.0252	75,271	7916	6.4	12.2545	6.2613	75,926	8033	8.9	20.0832	1.2689
72,458	7805	8.9	23.4211	2.8291	75,143	7917	8.8	12.6079	2.4842	76,088	8035	9.2	20.6164	10.1583
73,703	7807	8.7	23.8383	23.1585	75,434	7926	9.1	15.2023	9.9551	75,928	8036	9.1	20.9639	0.9357
73,329	7808	7.0	23.9426	18.7974	75,280	7931	7.4	15.9983	5.9322	76,294	8037	9.3	21.7558	24.8250
73,199	7811	9.1	25.5167	16.1323	75,281	7932	8.0	16.3038	5.9965	75,930	8038	8.8	21.9781	1.3329
<b>R.A. 18<sup>h</sup> 36<sup>m</sup></b>					75,521	7939	9.0	17.6562	13.2391	75,933	8041	8.9	23.4623	0.5765
74,762	7801	8.8	0.3569	19.9989	75,805	7940	9.3	17.7525	24.7141	76,152	8042	9.1	23.7711	13.9502
74,877	7802	8.7	0.5141	22.4500	75,698	7941	9.0	18.2196	20.7251	76,055	8044	9.0	24.6283	7.0449
74,731	7804	8.8	0.9648	19.0363	75,523	7942	8.9	18.2448	12.7389	<b>R.A. 19<sup>h</sup> 0<sup>m</sup></b>				
74,059	7805	8.9	0.8857	2.8395	75,333	7943	8.6	18.8576	6.9336	76,352	8041	8.9	0.8987	0.5863
74,880	7807	8.7	1.5572	23.1626	75,440	7945	8.8	18.9815	9.6866	76,655	8042	9.1	1.3748	13.9555
74,734	7808	7.0	1.6069	18.8003	75,829	7946	7.8	18.9298	25.4707	76,479	8044	9.0	2.1455	7.0401
74,611	7811	9.1	3.1475	16.1155	75,151	7947	8.9	19.0351	3.3132	76,505	8048	9.2	3.8796	7.9116
74,194	7815	8.7	4.3855	5.5357	75,235	7948	8.7	19.5940	4.8746	76,506	8049	8.6	3.9439	7.6656
74,565	7816	6.6	4.4016	14.6291	75,293	7949	8.3	19.5901	6.2108	76,356	8050	9.1	4.6425	0.3840
74,930	7819	9.0	5.1898	24.2962	75,527	7950	9.2	19.6452	13.1893	76,611	8051	8.8	5.0853	11.4511
74,247	7820	8.8	5.2979	6.0959	75,408	7952	8.6	20.4638	8.8486	76,695	8056	8.9	6.1268	14.8356
					75,242	7954	8.9	20.8179	5.3209					



Reference No.		Mag	Standard co-ordinates, 1900 o.		Reference No.		Mag	Standard co-ordinates, 1900 o		Reference No.		Mag	Standard co-ordinates, 1900 o.	
Hyd.	Algiers		ξ	η'	Hyd	Algiers		ξ.	η'.	Hyd	Algiers		ξ	η'.
R.A. 19 <sup>h</sup> 0 <sup>m</sup> (continued)					R.A. 19 <sup>h</sup> 8 <sup>m</sup> (continued)					R.A. 19 <sup>h</sup> 24 <sup>m</sup>				
76,438	8059	8.3	6.3532	4.2957	77,095	8170	9.2	15.2266	2.0174	79,562	8302	8.9	1.7435	9.9818
76,563	8061	9.1	6.6644	9.6763	77,694	8172	9.1	15.5239	17.6732	79,772	8304	8.2	2.3229	21.9346
76,593	8062	9.2	7.2238	10.9735	77,167	8173	9.1	15.6894	3.4600	79,582	8305	9.1	2.7381	10.4558
76,512	8063	9.0	7.5099	8.0832	77,576	8177	9.0	17.0406	15.2789	79,834	8307	6.0	2.8605	24.7250
76,614	8065	8.8	8.0371	12.3755	77,070	8178	8.0	17.3672	0.5179	79,698	8308	7.4	3.2930	18.3482
76,855	8067	8.0	8.4132	21.1371	77,959	8181	8.6	18.4760	25.1391	79,583	8309	8.7	3.5924	10.4637
76,441	8068	8.6	8.4730	4.4794	77,538	8182	8.7	18.9522	14.5626	79,797	8310	8.6	5.0947	22.9249
76,829	8069	9.0	9.0441	20.4368	77,347	8183	9.0	19.2693	8.5700	79,433	8312	9.2	5.6736	2.9569
76,941	8070	4.5	9.3565	23.6604	77,540	8185	8.7	19.6855	14.5169	79,585	8313	9.1	5.7739	11.2927
76,697	8071	8.9	9.3685	14.9304	77,915	8186	8.8	20.3256	24.6831	79,522	8315	8.7	6.4855	7.7848
76,666	8074	8.1	10.5262	14.1464	77,350	8189	9.0	21.0340	9.1229	79,607	8316	8.8	6.8323	12.1049
76,723	8075	9.0	10.8743	15.7853	77,812	8192	8.5	21.3801	21.0906	79,686	8319	9.1	7.5927	17.2224
76,669	8079	8.8	12.5050	13.8108	77,918	8195	9.0	21.8893	24.1893	79,565	8321	8.8	7.9289	9.6198
76,837	8085	8.9	15.9420	19.9524	77,387	8196	8.0	22.2189	9.7120	79,657	8325	9.3	9.2449	15.3300
76,403	8086	8.7	16.0897	2.6535	77,626	8197	8.1	22.2504	16.0112	79,527	8329	9.1	10.8760	7.4282
76,545	8088	9.1	16.8240	9.0313	77,474	8199	8.6	22.3551	11.5750	79,406	8332	9.0	11.1329	0.4226
76,886	8091	8.9	17.0161	22.2261	77,475	8200	8.8	22.5926	11.8038	79,723	8336	8.4	12.4033	19.5280
76,777	8095	8.7	18.0605	17.8131	77,849	8204	8.7	23.3139	22.5612	79,630	8346	8.7	14.1494	13.4981
76,649	8097	9.1	18.6718	12.6620	77,669	8208	9.1	23.8438	17.2114	79,725	8350	6.9	15.6938	19.2412
76,919	8098	8.6	18.6778	23.2255	77,814	8210	8.7	24.1213	21.2548	79,765	8351	8.5	15.9877	20.6755
76,472	8102	9.0	19.8118	6.1844	77,104	8211	8.9	24.3945	1.6457	79,726	8352	8.8	16.0764	19.1082
76,708	8103	8.5	20.3286	14.7814	77,311	8215	8.4	25.4638	8.5091	79,805	8353	8.3	16.8409	23.1413
76,782	8104	8.9	20.5047	17.8224	R.A. 19 <sup>h</sup> 16 <sup>m</sup>					79,676	8354	7.8	17.1648	15.9916
76,476	8106	9.1	21.2160	5.3305	78,574	8200	8.8	0.1695	11.8240	79,807	8355	8.6	17.2701	23.1853
76,682	8107	9.3	21.1955	13.7060	79,156	8204	8.7	1.0253	22.5721	79,548	8356	9.0	17.5148	8.5665
76,370	8108	8.5	21.4102	0.6881	78,844	8208	9.1	1.4883	17.2156	79,648	8357	9.1	17.5378	14.0997
76,409	8110	8.4	21.7908	2.9340	79,051	8210	8.7	1.8164	21.2552	79,532	8361	8.6	19.2293	8.3476
76,446	8111	9.0	21.9265	5.1133	78,097	8211	8.9	1.8442	1.6443	79,781	8362	8.2	19.4648	21.7536
76,845	8115	8.6	23.3833	20.4483	79,051	8210	8.7	1.8164	21.2552	..	8369	9.2	24.2522	0.3457
76,429	8118	8.1	23.5462	3.4385	78,097	8211	8.9	1.8442	1.6443	79,414	8371	9.5	24.4175	0.5308
76,846	8119	8.9	23.4910	20.0049	78,415	8215	8.4	2.9993	8.4941	79,664	8372	8.9	24.4521	14.8092
76,714	8120	3.1	23.6772	15.2244	79,229	8221	9.0	4.4239	23.6180	79,790	8374	9.0	24.5047	22.0569
76,372	8122	6.7	24.0148	0.5664	78,321	8225	9.2	5.1447	6.7510	79,463	8378	9.1	25.5804	3.8088
76,527	8123	8.6	24.0430	8.3620	78,703	8226	8.5	5.5525	13.9005	R.A. 19 <sup>h</sup> 32 <sup>m</sup>				
76,609	8125	8.5	25.8740	11.0361	78,152	8228	9.1	5.9111	2.4520	79,901	8369	9.2	1.6857	0.3461
76,925	8126	8.9	25.8003	23.0553	78,379	8230	9.1	6.1741	8.2767	79,902	8371	9.5	1.8533	0.5291
R.A. 19 <sup>h</sup> 8 <sup>m</sup>					78,853	8231	8.7	6.3089	17.4005	80,373	8372	8.9	2.0665	14.8059
77,791	8115	8.6	1.0684	20.4583	78,856	8233	9.3	7.1496	17.0068	80,610	8374	9.0	2.2105	22.0522
77,149	8118	8.1	1.0184	3.4472	78,103	8235	9.0	7.9560	2.0898	79,987	8378	9.1	3.0571	3.7930
77,758	8119	8.9	1.1705	20.0134	79,296	8236	8.8	8.7362	25.6086	79,909	8384	8.6	5.8285	1.0557
77,555	8120	3.1	1.2968	15.2309	78,903	8237	9.1	8.9114	18.3438	80,313	8385	8.6	6.4996	12.9635
77,051	8122	6.7	1.4511	0.5696	79,116	8241	8.8	10.0242	21.6543	79,913	8387	9.0	6.8388	0.9031
77,314	8123	8.6	1.5768	8.3646	79,298	8242	8.7	10.0852	24.8519	80,386	8388	8.9	7.2605	14.7000
77,398	8125	8.5	3.4410	11.0155	78,600	8244	8.8	10.4413	11.5525	80,024	8392	8.8	8.3524	4.4334
77,852	8126	8.9	3.5176	23.0339	78,112	8247	9.0	11.6266	1.8526	80,028	8398	9.2	10.0919	4.3718
77,718	8127	9.1	3.6538	19.4395	79,179	8250	9.0	12.7897	22.9830	80,585	8400	9.2	10.3042	21.5838
77,679	8130	9.1	4.3800	17.4978	78,494	8252	9.0	13.3956	9.6493	80,074	8401	9.3	10.4424	6.0945
77,116	8132	8.6	4.6957	2.6523	78,346	8253	9.1	13.5465	7.3250	80,659	8402	8.6	10.5777	23.2171
77,643	8134	9.1	5.7201	16.4278	78,347	8257	8.6	14.7858	7.0757	80,137	8404	8.7	11.0266	8.0623
77,248	8135	7.9	5.7080	7.1415	78,550	8259	7.4	15.1170	10.9583	80,317	8407	8.9	12.5688	13.4681
77,079	8137	8.8	6.5773	2.0243	78,349	8261	8.9	15.3519	7.1480	80,221	8411	8.9	14.5616	10.1647
77,290	8140	8.2	7.2503	7.5589	78,679	8263	9.1	15.9744	12.7152	80,116	8413	9.1	14.8215	7.3828
77,610	8142	8.7	7.5402	16.0192	78,122	8264	9.0	16.1129	1.4309	80,038	8414	9.1	16.2339	4.4467
77,216	8143	8.9	7.5188	5.9439	78,924	8267	9.2	16.4790	18.2692	80,670	8417	8.8	18.0216	23.0160
77,121	8144	8.7	7.5808	2.5557	78,172	8268	8.9	16.6689	2.7532	80,562	8419	9.0	18.4148	19.8034
77,081	8146	8.9	8.6321	2.1805	78,301	8275	8.9	18.6337	5.7411	80,426	8422	8.8	18.5472	15.7975
77,861	8147	7.3	8.7951	22.8915	79,262	8276	8.7	18.6315	24.3540	80,008	8423	8.4	19.0692	3.9314
77,219	8150	8.8	9.5008	5.7284	78,358	8278	9.0	19.4682	6.8722	80,228	8424	8.1	19.3842	10.3320
77,195	8152	8.5	10.5716	5.2873	78,269	8284	8.8	20.5487	5.2280	80,533	8425	8.3	19.5752	19.3899
77,299	8154	8.1	10.8384	8.0732	78,508	8285	8.6	21.1135	10.4618	80,536	8428	8.3	20.3759	18.8027
77,226	8156	9.1	11.9279	5.3450	78,627	8286	9.1	21.3295	11.6803	80,361	8429	8.1	21.1855	13.8458
77,200	8160	9.0	12.5481	5.3068	78,631	8289	9.1	21.8216	11.9366	80,009	8432	9.1	21.8559	4.3026
77,653	8162	8.9	13.1476	17.4828	78,515	8302	8.9	24.1893	9.9814	80,190	8433	9.0	21.9623	8.5392
77,089	8164	9.1	13.3654	2.1434	79,151	8304	8.2	24.6193	21.9406	80,151	8434	8.8	22.3153	8.0786
77,692	8168	9.0	14.8742	17.8764	78,518	8305	9.1	25.1781	10.4677	80,051	8435	8.7	23.1430	4.8354
					79,277	8307	6.0	25.1220	24.7379					



Reference No.		Mag.	Standard co-ordinates, 1900.0		Reference No.		Mag.	Standard co-ordinates, 1900 0		Reference No.		Mag.	Standard co-ordinates, 1900.0	
Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η'	Hyd	Algiers.		ξ	η'.
R.A. 19 <sup>h</sup> 32 <sup>m</sup> (continued)					R.A. 19 <sup>h</sup> 56 <sup>m</sup>					R.A. 20 <sup>h</sup> 12 <sup>m</sup> (continued)				
80,643	8437	8.7	23.6445	22.4846	82,522	8552	9.2	1.2406	3.0355	83,486	8680	9.0	10.0681	15.8834
80,366	8438	8.6	23.9990	13.8689	82,532	8557	9.1	4.0633	3.4218	83,581	8682	7.1	10.9208	20.5045
80,514	8442	9.2	25.1019	17.7768	82,557	8560	9.0	5.0374	5.2631	83,539	8684	9.0	11.1932	19.1701
R.A. 19 <sup>h</sup> 40 <sup>m</sup>					82,577	8566	9.1	7.1644	6.7792	83,242	8685	7.8	11.4844	4.2171
80,919	8435	8.7	0.6327	4.8489	82,784	8567	9.0	7.8542	25.5115	83,201	8687	9.2	12.9958	2.1404
80,801	8436	9.0	0.6949	0.2045	82,672	8568	8.8	8.8351	14.5628	83,158	8694	8.7	15.2536	1.0794
81,551	8437	8.7	1.3550	22.4910	82,523	8569	7.7	9.3026	2.5676	83,542	8698	8.6	17.1373	18.8073
81,213	8438	8.6	1.6016	13.8714	82,745	8572	8.6	10.9363	21.8600	83,492	8700	7.0	17.4580	16.1657
81,376	8442	9.2	2.7533	17.7650	82,757	8573	9.1	11.1001	22.9660	83,225	8703	8.1	17.9494	3.7026
80,886	8444	9.1	3.9917	3.1890	82,697	8578	9.0	13.9937	17.3807	83,493	8705	9.0	18.0575	15.7406
80,986	8445	8.9	4.3573	6.1881	82,649	8584	8.6	16.0608	13.2760	83,661	8707	8.9	18.8721	23.7119
81,524	8446	8.6	4.7684	21.6348	82,627	8594	8.8	21.1808	10.8124	83,229	8708	8.8	18.9437	3.6932
81,167	8449	9.3	5.2865	11.9313	82,698	8596	9.2	21.5828	17.3910	83,315	8709	8.8	19.5067	7.8777
80,959	8451	9.0	6.0396	5.8192	82,731	8597	7.7	21.5992	20.1695	83,247	8711	8.7	20.5219	4.3728
81,379	8455	9.1	6.9916	17.8002	82,630	8603	9.0	24.1967	10.8870	83,161	8713	7.5	20.5783	0.5421
81,611	8456	9.3	7.7726	24.5260	82,691	8604	8.4	24.9216	16.4604	83,481	8714	8.5	21.2127	14.4306
80,991	8457	9.1	8.4183	6.7448	R.A. 20 <sup>h</sup> 4 <sup>m</sup>					83,164	8717	9.0	21.9305	0.5048
81,239	8458	8.7	8.9681	13.3235	82,954	8603	9.0	1.7621	10.8872	83,621	8722	8.2	23.3600	21.8169
81,240	8459	9.0	9.9400	13.7344	83,010	8604	8.4	2.5566	16.4509	83,667	8724	9.2	23.9579	23.8717
81,313	8466	8.9	13.4942	15.2341	82,868	8607	8.5	3.5627	6.1548	83,322	8726	9.1	25.8242	7.6021
80,833	8468	5.1	14.4915	1.0186	83,105	8608	7.6	3.7585	24.5474	R.A. 20 <sup>h</sup> 20 <sup>m</sup>				
80,972	8469	9.1	14.6088	5.9337	83,000	8609	8.9	3.8369	15.3070	84,162	8722	8.2	1.0622	21.8271
81,534	8470	8.0	14.6203	22.1912	82,810	8611	9.2	3.8316	1.7921	84,205	8724	9.2	1.6857	23.8740
81,277	8473	8.7	15.0355	14.7885	82,956	8612	9.1	4.5121	11.1828	83,861	8726	9.1	3.3483	7.5826
80,866	8474	9.1	15.2995	2.0001	83,073	8615	8.7	6.2298	21.7110	83,718	8728	8.5	3.6058	2.2009
80,834	8475	8.9	16.3238	1.7500	82,990	8617	8.0	6.8311	14.4600	84,014	8731	9.0	5.2628	14.9959
80,868	8476	8.3	16.5680	2.4956	82,827	8618	9.0	7.1633	2.8484	84,147	8734	8.6	6.5550	20.9401
81,592	8477	9.1	17.1666	23.6021	82,811	8619	8.3	7.2177	1.7873	83,947	8735	8.6	6.5343	11.2073
80,870	8479	9.0	17.2813	2.4463	83,012	8624	8.9	9.6425	16.2976	83,761	8737	8.5	7.3878	3.7702
81,653	8480	8.6	17.3721	25.8824	82,970	8628	7.8	12.1951	11.6062	83,867	8738	8.9	7.5703	7.6562
81,320	8484	7.6	18.8895	15.4566	83,089	8632	8.8	13.1123	22.7780	84,090	8740	8.8	8.1465	18.9266
81,409	8485	9.0	19.0857	17.5399	82,928	8633	9.0	13.7541	9.1982	83,785	8741	9.0	8.1805	5.2202
81,221	8488	9.0	19.7688	12.2301	82,945	8636	8.8	14.5296	10.3226	84,029	8744	8.2	8.8619	15.8382
81,224	8491	9.1	22.4419	12.7119	83,064	8638	8.9	14.9934	20.3007	83,705	8747	8.9	10.1623	1.3938
81,226	8493	8.9	23.8213	12.9837	83,065	8639	8.5	15.7719	20.1815	83,789	8749	8.4	10.6627	5.0174
81,020	8495	9.2	24.3677	6.4712	83,020	8640	8.9	15.8447	16.8004	84,096	8753	8.8	11.9717	18.7808
81,549	8497	9.1	24.7574	22.3446	82,909	8641	7.3	16.8165	7.7287	84,174	8754	9.0	12.0404	22.7311
81,602	8501	8.9	25.3333	23.7698	..	8642	9.1	17.0281	0.4170	84,238	8755	8.7	12.1783	24.8301
R.A. 19 <sup>h</sup> 48 <sup>m</sup>					82,895	8645	8.5	17.9652	7.1572	83,726	8759	8.9	13.4331	1.5353
..	8491	9.1	0.0331	12.7338	82,896	8646	8.5	18.5936	7.3397	84,005	8764	8.7	15.8980	14.6300
82,028	8493	8.9	1.4129	12.9884	82,834	8647	9.1	19.0785	2.9855	83,741	8766	9.0	16.6944	3.1487
81,846	8495	9.2	1.8778	6.4696	83,066	8648	9.1	19.0701	20.1876	83,728	8768	9.2	16.7640	1.6957
82,339	8497	9.1	2.4661	22.3367	82,948	8651	9.0	20.8017	9.9195	83,896	8774	9.0	19.3828	8.6162
82,408	8501	8.9	3.0597	23.7546	82,821	8652	9.0	21.4174	1.7712	83,901	8776	8.8	20.1747	9.3041
81,940	8505	9.2	5.5497	10.0870	83,091	8655	8.7	22.4015	21.9151	83,975	8777	9.0	20.4846	11.9399
82,202	8506	8.8	5.8985	17.8305	82,839	8657	8.3	23.0800	3.2823	84,079	8779	9.1	20.5912	18.5196
81,705	8510	8.7	7.4319	0.4156	83,067	8658	8.9	23.1393	20.5989	83,711	8780	8.8	21.1105	1.2686
81,856	8512	8.9	8.3455	7.0450	82,901	8661	9.7	24.5541	7.2869	84,036	8782	7.4	21.9214	15.8178
81,757	8515	9.4	9.0586	2.6381	82,902	8662	9.2	24.5877	7.1046	84,082	8785	9.0	23.5919	18.5349
82,277	8517	9.0	9.4587	20.1841	82,903	8664	8.5	25.2270	7.5394	84,141	8790	9.1	24.7879	20.1205
81,783	8520	9.1	9.6504	3.5041	R.A. 20 <sup>h</sup> 12 <sup>m</sup>					83,733	8791	8.8	25.7084	2.0510
82,176	8521	8.7	10.1667	16.8856	83,212	8657	8.3	0.5502	3.2965	83,878	8792	8.7	25.8559	8.4055
82,315	8522	9.4	10.8584	21.1994	83,570	8658	8.9	0.8262	20.6121	R.A. 20 <sup>h</sup> 28 <sup>m</sup>				
81,711	8524	9.1	11.5080	0.9526	83,297	8661	9.7	2.0745	7.2831	84,753	8785	9.0	1.2529	18.5422
82,149	8526	9.1	12.2519	15.6369	83,298	8662	9.2	2.1056	7.1004	84,786	8790	9.1	2.4687	20.1125
81,922	8527	9.1	12.5915	8.4712	83,301	8664	8.5	2.7503	7.5272	84,314	8791	8.8	3.1629	2.0338
82,280	8528	9.3	13.6429	20.3587	83,649	8666	9.0	3.6786	23.3698	84,491	8792	8.7	3.3900	8.3855
82,461	8531	9.2	14.8143	25.0246	83,533	8668	9.0	4.2351	18.9138	84,355	8794	8.9	3.9046	4.0714
81,813	8534	9.1	15.5527	5.2427	83,465	8670	9.0	4.6814	14.3135	84,626	8795	7.3	4.2708	13.5490
81,895	8536	8.8	16.7068	8.2447	83,238	8671	9.4	5.3057	4.5275	84,334	8800	9.1	6.1982	2.6246
82,354	8538	8.9	17.5287	22.2355	83,384	8672	9.0	6.1502	10.5987	84,385	8806	9.0	9.6263	4.6670
81,960	8541	9.0	19.0512	10.0764	83,601	8673	8.5	6.4654	22.2196	84,417	8807	8.9	10.2111	5.8986
81,963	8543	9.1	21.0032	9.9256	83,241	8677	7.8	8.6482	4.9417	84,837	8809	8.8	11.9379	22.1845
81,994	8547	9.1	21.7846	11.1923	83,258	8678	8.7	9.3527	5.7400	84,683	8810	8.9	11.9700	15.8446
81,776	8552	9.2	23.7735	3.0297	83,283	8679	9.2	9.7212	6.8401	84,794	8812	9.2	12.3458	20.1476



Reference No		Mag.	Standard co-ordinates, 1900 0		Reference No		Mag.	Standard co-ordinates, 1900 0		Reference No		Mag.	Standard co-ordinates, 1900 0	
Hyd	Algiers.		ξ'	η'.	Hyd	Algiers		ξ'.	η'	Hyd.	Algiers		ξ'.	η'
<b>R.A. 20<sup>h</sup> 28<sup>m</sup> (continued)</b>					<b>R.A. 20<sup>h</sup> 44<sup>m</sup> (continued)</b>					<b>R.A. 21<sup>h</sup> 0<sup>m</sup> (continued)</b>				
84,576	8814	8.5	13.3242	11.5457	85,407	8940	9.1	16.8966	0.5520	86,641	9062	9.0	19.3324	20.3066
84,458	8817	9.3	15.0897	6.6383	85,824	8941	9.3	16.9021	25.6985	86,604	9065	9.0	19.9262	17.7741
84,461	8818	9.1	16.6581	6.9172	85,686	8943	9.0	17.7742	17.8046	.	9066	10.7	20.8693	22.0337
84,613	8821	9.0	17.5315	12.5230	85,525	8945	9.1	18.7543	8.7560	86,642	9067	5.9	20.9050	20.1613
84,917	8829	8.9	19.2828	24.8800	85,455	8946	9.1	19.3357	3.6414	86,464	9072	7.6	23.0005	8.2000
84,718	8830	8.8	20.1150	16.9064	85,423	8948	7.4	20.1858	1.2316	86,518	9073	9.1	23.4310	11.7719
84,585	8831	7.3	20.4569	12.1847	85,723	8949	7.2	20.2298	20.2913	86,537	9074	7.0	23.7400	12.5259
84,347	8832	9.0	21.3280	3.1139	85,619	8953	9.3	22.4941	13.8313	86,622	9075	8.8	23.7660	18.4472
84,589	8834	8.7	21.9929	11.9574	85,438	8957	9.3	23.9493	2.7610	<b>R.A. 21<sup>h</sup> 8<sup>m</sup></b>				
84,348	8836	8.8	23.1836	3.3854	85,439	8959	9.2	25.3538	3.0438	86,851	9072	7.6	0.5323	8.2151
84,827	8839	8.6	23.5753	21.2324	<b>R.A. 20<sup>h</sup> 52<sup>m</sup></b>					86,894	9073	9.1	1.0075	11.7815
84,850	8843	8.7	25.6433	22.3277	86,108	8953	9.3	0.0963	13.8526	86,914	9074	7.0	1.3259	12.5316
84,721	8845	7.4	25.9232	17.1545	85,879	8957	9.3	1.4130	2.7648	86,995	9075	8.8	1.4259	18.4524
<b>R.A. 20<sup>h</sup> 36<sup>m</sup></b>					85,881	8959	9.2	2.8210	3.0306	87,013	9083	9.3	8.2442	19.6399
84,983	8836	8.8	0.6551	3.3985	86,282	8961	8.7	3.6369	23.1170	86,869	9084	8.0	8.3941	9.8988
85,264	8839	8.6	1.2702	21.2397	86,161	8964	9.1	4.5399	16.9596	86,988	9087	8.5	9.9465	18.0685
85,284	8843	8.7	3.3517	22.3082	86,203	8970	9.1	6.4065	18.9663	87,034	9089	8.9	11.1875	21.3588
85,184	8845	7.4	3.5668	17.1323	85,907	8972	9.0	7.1998	3.3934	86,929	9090	9.3	11.7108	14.3425
85,204	8850	9.0	5.0748	18.3618	86,097	8977	9.2	9.4394	12.6058	86,831	9095	8.3	13.7826	7.0097
84,953	8853	9.1	6.8124	1.2828	85,958	8979	9.3	10.4985	5.9844	86,835	9102	7.8	16.5796	6.8196
85,021	8854	9.1	6.9356	6.3105	86,323	8981	9.0	11.6694	25.1687	86,942	9103	8.6	16.5625	15.4035
85,167	8855	8.1	6.9275	16.4841	85,959	8985	9.2	12.6570	6.1008	87,038	9107	8.5	17.2597	21.5144
85,191	8857	8.1	8.4984	16.7658	86,308	8988	8.6	13.0264	24.2822	86,932	9109	5.3	18.4283	13.8090
85,246	8858	8.8	9.2018	19.8687	86,232	8989	8.9	13.3268	20.2389	87,079	9110	8.2	19.0165	23.2696
85,323	8859	8.7	9.4014	24.7347	85,975	8990	8.7	13.6090	6.4716	86,850	9114	7.8	21.4154	8.0943
85,208	8863	9.1	11.5761	18.0643	85,892	8991	9.2	13.7514	3.2089	.	9118	8.7	23.0244	0.1017
85,155	8866	8.8	12.2969	15.0015	86,260	8992	8.8	14.3202	21.6476	86,797	9121	8.7	23.2539	3.5648
85,253	8872	8.9	13.8525	20.5742	85,978	8993	9.2	15.5998	7.3290	87,109	9122	8.6	23.7741	25.2551
85,256	8873	9.5	14.2117	20.0184	86,006	8994	8.9	15.8195	9.3792	87,044	9124	8.8	24.0585	21.1214
85,008	8877	9.2	15.9940	5.4175	86,055	9001	8.4	17.7013	10.9865	87,046	9126	8.8	24.8884	21.0879
85,049	8880	8.8	16.7336	7.9981	86,057	9004	8.9	18.6437	11.3376	87,025	9130	8.9	25.9177	20.4932
85,156	8881	8.8	16.9386	15.0213	86,332	9005	8.8	19.1216	24.9580	<b>R.A. 21<sup>h</sup> 16<sup>m</sup></b>				
85,216	8884	8.9	17.9049	18.5379	85,869	9006	8.7	19.3550	0.9701	87,211	9118	8.7	0.4549	0.1166
85,094	8888	9.1	18.5718	11.4897	85,944	9007	8.9	19.5568	5.4393	87,630	9121	8.7	0.7277	3.5770
85,258	8889	8.5	18.5942	20.1269	85,945	9011	8.5	22.0044	4.7160	87,549	9122	8.6	1.5192	25.2598
85,232	8893	8.0	19.7199	19.6468	86,297	9013	8.9	22.7579	23.0872	87,549	9124	8.8	1.7519	21.1226
85,329	8894	8.9	20.6590	24.6069	86,215	9017	8.9	25.1303	19.2165	87,551	9126	8.8	2.5813	21.0784
85,108	8896	9.0	21.2346	12.3936	86,267	9018	8.6	25.2080	21.7369	87,552	9130	8.9	3.6030	20.4704
85,179	8897	7.5	21.5198	16.0605	86,281	9019	8.9	25.3752	22.7395	87,330	9132	6.8	3.9270	10.0773
85,235	8898	8.5	22.6675	19.1987	86,034	9020	8.7	25.8512	9.7817	87,351	9134	9.1	4.5597	10.5603
85,085	8899	9.2	22.9067	10.1897	<b>R.A. 21<sup>h</sup> 0<sup>m</sup></b>					87,192	9136	9.0	5.2061	2.8506
85,159	8902	9.2	24.0463	15.6374	86,678	9013	8.9	0.4759	23.1050	87,353	9137	8.9	5.4073	11.1213
85,099	8904	8.9	24.7840	11.5895	86,610	9017	8.9	2.7998	19.2042	87,554	9138	8.6	5.7277	21.4021
85,315	8907	6.4	25.1694	23.5788	86,663	9018	8.6	2.9089	21.7232	87,581	9139	8.8	5.7897	21.5399
85,112	8909	9.0	25.8373	11.9165	86,679	9019	8.9	3.0887	22.7234	87,299	9140	8.1	5.7959	7.3323
<b>R.A. 20<sup>h</sup> 44<sup>m</sup></b>					86,478	9020	8.7	3.4025	9.7616	87,218	9142	8.9	9.0565	4.0504
85,695	8898	8.5	0.3369	19.2178	86,493	9024	9.1	4.1628	10.9613	87,607	9145	8.8	11.1280	23.4891
85,543	8899	9.2	0.4633	10.2060	86,364	9027	9.1	5.2996	1.4611	87,459	9146	8.0	11.2426	15.9199
85,641	8902	9.2	1.6711	15.6392	86,390	9030	8.6	6.3595	2.4260	87,400	9147	9.0	11.8934	13.2677
85,569	8904	8.9	2.3580	11.5823	86,693	9031	8.3	6.4619	24.1882	87,242	9150	9.1	12.2439	4.3485
85,779	8907	6.4	2.8934	23.5653	86,367	9033	8.6	7.8036	1.1671	87,162	9151	8.7	12.2869	0.4248
85,570	8909	9.0	3.4153	11.8962	86,551	9034	8.6	7.8510	14.7261	87,424	9155	9.1	13.5524	14.0821
85,472	8912	8.9	4.2938	5.7681	86,411	9040	5.3	9.3839	4.0067	87,260	9157	9.1	14.2231	5.2981
85,485	8915	9.0	4.9869	6.9813	86,636	9043	8.5	11.5456	20.0582	87,443	9158	9.1	14.6441	14.4748
85,758	8921	9.2	8.9650	21.6388	86,460	9044	8.7	11.6821	7.1283	87,204	9161	8.3	17.8302	2.3003
85,631	8925	9.0	9.6794	14.8311	86,583	9045	8.7	13.0135	17.2330	87,465	9163	6.0	19.9583	16.3375
85,592	8927	9.2	10.6705	12.8655	86,602	9046	9.2	13.8304	18.0236	87,185	9164	9.1	20.0547	1.5944
85,593					86,462	9048	6.9	15.8044	7.9641	87,227	9165	9.1	20.2596	3.6827
85,804	8928	8.9	11.1069	25.0290	86,398	9049	9.2	16.2392	2.2707	87,186	9167	9.0	21.5542	1.3390
85,595	8929	8.6	11.5193	12.9393	86,555	9050	9.2	16.6200	14.8480	87,368	9168	9.2	21.7395	10.8497
85,597	8932	9.0	13.0929	12.7053	86,450	9051	8.9	16.6830	6.6102	87,486	9170	9.1	22.3533	17.5366
85,430	8934	9.1	13.8002	2.1263	86,589	9052	8.8	16.8980	16.5264	87,394	9171	9.0	22.4280	11.6624
85,420	8935	9.1	15.1683	1.7372	86,514	9055	8.6	17.5487	11.8254	87,370	9173	9.1	23.3266	10.8308
85,740	8936	7.4	16.1388	21.1949	86,451	9060	8.6	19.0023	6.2579	87,626	9175	9.0	24.1796	24.4076
85,808	8938	9.1	16.5675	24.9823	86,617	9061	9.1	19.1305	19.2633	87,433	9177	9.0	25.5778	13.8126







Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.		Reference No.		Mag.	Standard co-ordinates, 1900 o.	
Hyd.	Algiers		ξ.	η.	Hyd.	Algiers		ξ.	η.	Hyd.	Algiers		ξ.	η.
<b>R.A. 22<sup>h</sup> 36<sup>m</sup> (continued)</b>					<b>R.A. 23<sup>h</sup> 0<sup>m</sup> (continued)</b>					<b>R.A. 23<sup>h</sup> 24<sup>m</sup> (continued)</b>				
90,432	9569	9.1	4.9168	17.2666	91,162	9707	8.8	13.1310	15.1457	91,880	9831	8.8	14.4985	11.2373
90,408	9571	9.1	5.3795	14.6824	91,054	9711	8.6	16.7190	0.9841	91,911	9833	8.3	14.8488	14.5287
90,457	9575	9.0	7.8613	19.9249	91,256	9712	8.7	17.3712	24.9382	91,868	9834	8.7	15.3752	9.6725
90,286	9577	8.8	8.3607	3.6384	91,091	9713	8.7	17.5318	5.9180	91,813	9839	8.8	18.0432	1.5117
90,318	9581	8.7	9.3649	7.3585	91,151	9715	9.3	17.8562	13.1366	91,977	9840	7.0	19.8129	24.0696
90,423	9582	9.2	9.4485	15.7776	91,159	9716	9.1	20.6595	14.6335	91,969	9841	8.0	20.1614	22.6298
90,436	9585	9.0	14.5927	16.6697	91,192	9723	9.4	23.0743	17.8644	91,827	9847	8.9	23.5696	4.1676
90,449	9588	8.6	16.3792	18.6234	91,213	9724	3.9	24.4713	21.6222	91,860	9848	7.8	23.8401	8.7118
90,478	9589	8.8	16.9444	21.4322	<b>R.A. 23<sup>h</sup> 8<sup>m</sup></b>					91,937	9850	4.6	24.2931	18.6428
90,427	9598	9.1	20.3539	16.2361	91,420	9723	9.4	0.7270	17.8783	91,861	9852	9.0	25.3428	9.0815
90,450	9601	9.0	21.8567	18.6959	91,452	9724	3.9	2.1709	21.6180	<b>R.A. 23<sup>h</sup> 32<sup>m</sup></b>				
90,444	9605	9.3	23.8863	17.8072	91,301	9731	9.3	4.6128	1.0741	92,019	9847	8.9	1.0509	4.1758
90,420	9606	9.0	25.0938	15.3202	91,441	9733	8.3	6.1316	19.7371	92,033	9848	7.8	1.3783	8.7167
90,439	9607	9.4	25.8970	17.5006	91,432	9738	9.0	8.2068	19.5581	92,098	9850	4.6	1.9555	18.6412
<b>R.A. 22<sup>h</sup> 44<sup>m</sup></b>					91,445	9744	9.4	10.7507	20.8821	92,034	9852	9.0	2.8855	9.0677
90,655	9605	9.3	1.5382	17.8109	91,394	9746	9.2	11.2312	14.3172	92,110	9856	9.2	5.6079	20.8502
90,645	9606	9.0	2.7146	15.3088	91,316	9750	7.9	15.3327	3.8850	92,043	9857	8.9	5.7174	9.6962
90,656	9607	9.4	3.5448	17.4788	91,343	9753	8.4	16.6198	7.7665	92,031	9863	9.3	9.2786	8.2191
90,669	9609	9.4	3.9076	20.1131	91,354	9757	9.1	18.3237	9.4245	92,062	9870	9.1	14.2281	13.7047
90,615	9611	8.8	5.2283	10.4694	91,397	9758	9.3	18.6349	13.6856	92,010	9871	9.0	14.7053	3.0651
90,648	9612	8.0	5.8317	16.8336	91,468	9760	8.8	19.5440	23.4633	92,094	9873	7.7	17.1344	18.0592
90,587	9613	9.0	5.9272	6.1816	91,369	9761	9.1	20.5369	11.0578	92,121	9874	9.1	17.6426	23.4638
90,672	9615	8.6	7.5359	19.9595	91,320	9762	9.0	20.6589	4.3674	92,065	9877	9.3	19.3511	14.3904
90,565	9619	6.0	7.8754	2.6226	91,458	9764	8.0	22.1903	21.7792	92,016	9881	9.1	21.4219	4.3006
90,569	9624	8.7	10.0453	3.7070	91,335	9765	8.9	22.4159	7.1133	92,058	9884	8.9	24.5078	13.2634
90,617	9628	9.2	12.5620	10.4784	91,460	9766	7.7	22.8335	21.9985	92,039	9885	9.1	24.7668	8.6542
90,664	9629	9.1	12.6227	19.0795	91,413	9769	8.1	23.7754	15.8001	92,048	9888	7.9	25.7892	9.7481
90,618	9632	8.4	14.5433	10.7657	91,373	9773	9.4	25.5232	11.2644	92,021	9889	7.6	25.8405	4.7888
90,667	9637	9.0	19.2936	18.6605	<b>R.A. 23<sup>h</sup> 16<sup>m</sup></b>					<b>R.A. 23<sup>h</sup> 40<sup>m</sup></b>				
90,552	9638	8.6	19.8182	1.0078	91,732	9766	7.7	0.5380	22.0156	92,214	9884	8.9	2.1028	13.2594
90,688	9642	8.9	21.6017	21.5951	91,661	9769	8.1	1.4023	15.8053	92,196	9885	9.1	2.3041	8.6476
90,602	9643	9.1	22.1095	8.2236	91,622	9773	9.4	3.0931	11.2481	92,200	9888	7.9	3.3401	9.7286
90,603	9647	9.1	24.2900	8.2484	91,666	9780	8.9	8.1628	16.0114	92,170	9889	7.6	3.3294	4.7696
<b>R.A. 22<sup>h</sup> 52<sup>m</sup></b>					91,701	9781	9.2	10.2028	18.8744	92,151	9891	8.3	3.8105	0.4297
90,835	9647	9.1	1.8224	8.2477	91,570	9782	8.8	10.6641	7.8944	92,261	9892	8.4	7.7224	20.7460
90,892	9651	9.1	3.6520	11.9539	91,687	9787	9.0	13.1322	17.7544	92,209	9894	8.8	8.9969	10.9575
91,018	9652	9.0	3.7905	23.3818	91,614	9789	8.9	13.8290	11.1222	92,187	9899	9.0	11.7535	6.6655
90,959	9655	9.1	4.8941	17.5937	91,560	9791	9.1	16.0366	6.5847	92,268	9900	9.2	13.5784	22.9108
91,031	9656	9.3	4.9964	23.9897	91,534	9792	8.8	17.1795	3.8119	92,175	9906	8.8	17.9482	4.8016
90,991	9659	9.1	7.3149	21.6516	91,783	9794	8.8	17.6893	25.9787	92,279	9910	9.1	18.4991	25.7904
90,853	9660	6.5	7.7852	9.0713	91,584	9795	4.3	17.8274	8.7641	92,177	9915	8.8	23.8003	4.5750
90,904	9661	8.8	8.9313	13.7806	91,750	9796	8.9	18.1074	23.3681	92,259	9916	8.9	24.0196	19.9648
.	9663	Var.	12.2941	11.5239	91,722	9803	8.5	21.9123	20.0471	92,216	9918	8.7	24.9440	13.0292
90,996	9664	9.2	12.4499	21.5118	91,627	9806	8.5	22.4102	12.2959	<b>R.A. 23<sup>h</sup> 48<sup>m</sup></b>				
90,767	9665	8.0	12.4754	2.0459	91,779	9808	8.2	22.7881	24.9341	92,319	9915	8.8	1.2867	4.5804
90,897	9666	9.4	12.6974	12.4530	91,618	9809	8.9	23.0971	10.9932	92,393	9916	8.9	1.6985	19.9666
90,921	9667	8.4	13.3958	15.4463	91,659	9813	8.0	25.9442	14.9755	92,353	9918	8.7	2.5361	13.0198
90,884	9668	7.7	13.7235	10.7165	<b>R.A. 23<sup>h</sup> 24<sup>m</sup></b>					92,359	9919	9.1	3.6356	13.7246
90,804	9670	8.5	14.6623	5.3875	91,978	9808	8.2	0.5293	24.9517	92,377	9922	8.4	4.8641	18.2667
91,009	9677	9.2	15.7257	21.7804	91,876	9809	8.9	0.6638	11.0071	92,348	9923	7.0	5.7024	10.4787
90,965	9679	9.0	17.3340	18.1075	91,908	9813	8.0	3.5604	14.9534	92,419	9924	9.2	6.2616	23.7144
90,781	9683	9.2	21.9275	2.9269	91,909	9814	5.5	4.0313	15.3000	92,372	9929	8.6	8.4712	17.0635
90,951	9684	8.8	21.9544	17.2289	91,801	9815	8.9	4.2363	0.0960	92,428	9936	8.7	12.3608	25.4345
90,876	9689	9.3	25.7223	10.0236	91,981	9816	9.1	4.5877	24.7909	92,341	9938	9.8	14.2103	10.3577
<b>R.A. 23<sup>h</sup> 0<sup>m</sup></b>					91,959	9817	8.7	5.3577	21.9008	92,363	9939	7.5	14.3614	13.8758
91,129	9689	9.3	3.2766	10.0050	91,960	9819	9.0	6.8417	22.2539	92,337	9945	7.9	18.1106	8.2191
91,051	9692	8.8	3.9697	0.6772	91,921	9821	8.7	7.2192	16.6358	92,423	9946	7.6	18.6222	24.2323
91,154	9694	9.1	4.9037	13.8620	91,844	9823	9.4	8.7193	6.2597	92,389	9950	7.9	19.7916	19.1387
91,188	9696	5.9	5.7352	17.8732	91,821	9824	8.9	9.2589	4.1670	92,357	9951	9.1	20.8930	13.2864
..	9697	8.9	5.8462	0.0563	91,865	9825	8.9	10.7821	9.4444	92,345	9954	8.9	22.5778	9.8505
91,120	9700	8.8	7.4965	8.7665	91,896	9826	8.9	10.8633	13.2193	92,324	9955	9.1	22.6067	5.2288
91,161	9701	8.9	7.6225	14.7162	91,985	9827	8.8	11.3904	25.2277	92,318	9958	9.0	23.0455	4.2553
91,053	9703	9.0	7.6372	1.1814	91,804	9828	9.0	11.7781	0.2092	92,387	9960	6.9	24.2543	17.7154



Reference No.		Mag.	Standard co-ordinates, 1900 0.		Reference No.		Mag.	Standard co-ordinates, 1900 0.		Reference No.		Mag.	Standard co-ordinates, 1900 0.	
Hyd.	Algiers.		ξ'	η'	Hyd.	Algiers.		ξ'	η'	Hyd.	Algiers.		ξ'	η'
<b>R.A. 23<sup>h</sup> 56<sup>m</sup></b>					<b>R.A. 23<sup>h</sup> 56<sup>m</sup> (continued)</b>					<b>R.A. 23<sup>h</sup> 56<sup>m</sup> (continued)</b>				
92,527	9954	8.9	0.1303	9.8709	92,589	9972	9.3	8.1500	19.0329	92,619	9983	9.1	13.2778	24.5314
92,496	9955	9.1	0.1013	5.2488	92,514	9973	7.5	8.1589	8.0040	92,516	9985	9.3	14.1065	7.3523
92,486	9958	9.0	0.5279	4.2701	92,462	9974	9.0	8.5815	2.0429	92,580	9986	9.1	15.8765	18.1411
92,574	9960	6.9	1.9050	17.7144	92,515	9976	9.1	9.6613	8.1127	92,457	9987	9.0	17.3219	1.0090
92,537	9964	8.8	5.2225	11.5128	92,463	9977	8.8	9.7926	1.6670	92,518	9989	6.3	18.1212	8.2731
92,538	9967	8.9	5.4691	11.2694	92,590	9978	9.1	9.9707	18.6371	92,548	9993	9.2	21.9442	14.5138
92,513	9968	8.9	6.1890	7.9979	92,454	9980	8.4	10.2946	0.6623	92,460	9994	8.7	22.8368	0.9580
92,473	9969	7.5	6.5667	3.5192	92,543	9981	9.0	12.4267	12.7661	92,585	9995	9.3	22.7886	18.5882
92,552	9970	8.5	7.3167	15.2032	92,562	9982	8.5	13.0885	16.1547	92,461	9996	8.7	23.6245	0.6576



